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D. S. Rogers
1980-1982

General Index

Journal

1980 Mexico:Baja, Chiapas, Veracruz
1981 Mexico: Veracruz, Oaxaca
1982 Costa Rica

Catalogue #1300-2286

D. S. Rogers
1980-1982

Journal

1980 Mexico:Baja, Chiapas, Veracruz

1981 Mexico: Veracruz, Oaxaca

1982 Costa Rica

Duke S. Rogers
1980

Journal

3 September

0930 hrs Robert Seib and I left Berkeley, Ca for Baja, Mexico. I plan to collect mammals, primarily rodents and gophers, while RS collects herps.

2000 hrs Have arrived at border across from Tijuana after driving through Los Angeles and San Diego via Interstate 5. Had to get a certificate of citizenship since I left my birth certificate at home and had no passport.

2145 We will stay at a Hotel 8 (#24/night) and buy car insurance in the morning.

4 September

0730 hrs Awoke and prepared to leave US.

0900 hrs Crossed border into Baja

01:15 hrs Went through check point near Punta Banda

16:30 hrs Arrived vicinity El Rosario and drove to a locality where RS has a pitfall station. Collected several lizards and 2 shrew partial skeletons (probably Notiosorex)

17:45 Set 20 Sherman traps up a dry wash in the canyon where RS has pitfall traps. Locality is 10 mi SE (by road) El Rosario (taken from bend in Hwy). Weather was mild (ca. 85°F)

18:30 hrs Drove to a locality near the coast and set 80 more Sherman traps. Coastal scrub habitat. Much cooler here than the other locality. This locality is designated

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4 September cont.

Kilometer 40 on the highway or 9.3 mi N (by road) El Rosario.

19:30 hrs. Began road driving for herps

2000 hrs Collected several herps (see Leib's Journal this date) after driving ca. 50 miles SE El Rosario. Will make camp at the 10 mi SE locality for the night.

5 September

0545 Arose to check traps.

0630 Collected 9 mice from 20 traps at the 10 mi SE El Rosario locality

4 *Neotoma fuscipes* (all released)

4 *Perognathus*

1 *Peromyscus*

0845 hrs Collected 12 mice from 80 Sherman at 9.3 mi N (by road) El Rosario

8 *Neotoma* (7 *fuscipes* and 1 *lepida*?)

3 *Perognathus*

1 *Peromyscus maniculatus*

10:30 Began driving for Bahia de los Angeles. We plan to stop and check for herps in various pitfall traps.

15:15 hrs. Arrived at Bahia de Los Angeles and rented a room for $18/night. RS will preserve all herps and I plan to take electrophoretic tissue and prepare

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5 September Cont.

mammals.

20:15 hrs. Collected ect. tissue on several *Perognathus* and a *Peromyscus maniculatus*

20:45 left hotel to nightwalk for snakes and lizards

22:30 hrs Arrived back at hotel (see RS journal for account of herps collected). and locality

6 September

0745 hrs Arose and prepared to set up a grid to quantify vegetation.

1145 hrs. Arrived back at hotel. Weather is extremely hot (<40°C). We were able to set up grid, but only quantified 3 of 30 quadrats. Also checked pitfall traps nearby. We will rest during heat of the day, then go out to do more grid work and I will set some small mammal traps. We will also nightwalk for herps.

20:30 hrs Arrived back at the hotel. We have measured more quadrats and RS divided the quadrats in half (5x10 m) for easier handling. Also have set 60 Shermans in a wash (7 Km W (by road) Bahia de los Angeles. The traps were set along a dry wash, ca. 3-4 m high on either side. Some areas were completely rocky, others very sandy. Numerous burrows in sandy and hard packed sandy soil. Woodrat droppings very evident, especially among rocks. Some evidence of dens.

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7 September

0600 hrs Arose as sun was coming over Loreja. We will check traps and shot lizards this morning.
0915 hrs Arrived back at Hotel. Collected 13 rodents including: 8 *Perognathus fallax*?, 1 *Neotoma lepida*?, 4 *Peromyscus* (probably *truei* and *eremicus*). *Peromyscus* were collected in rocky microhabitats, as were the woodrats and some *Perognathus*. Traps set in very sandy areas yielded fewer animals, and only *Perognathus*
1030 hrs Ready to take tissue on animals collected. RS is not feeling well due to the heat.
1630 hrs. Completed preparing today's specimens. We will leave soon to finish measuring vegetation and set more mammal traps and possibly nightwalk for herps.
1945 Arrived at hotel. Finished grid work, measuring 30 5x10 m quadrats for vegetation. Put out 40 more Shermans at a locality 26 km (by road) Rancho de Los Angeles. The vegetation was much more dense and diverse. Large barrel cactus, cirios and some mesquite. Soil was very sandy ca 15 m either side of the road, but became rocky with many pebbles and small rocks (.1-.3 m). Set traps mainly at areas between these two soil types. The weather today was much cooler due to winds from the pacific side. Collected an *Ammospermophilus* in the dry wash locality while rebaiting those traps by flashlight. The individual had died during the day.

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8 September

0545 hrs Arose very early. We must load car and drive to pick up traps at two localities. We will then drive to San Ignacio and Rosarita.

0900 hrs. We have completed picking up traps. Of the 60 traps set at the 7 mi. W local., of which two I lost, I collected 2 Perognathus, 1 Ammospermophilus (escaped), 1 Neotoma, and 1 Peromyscus. Of the 40 shermans set at the 26 Km locality, have collected 1 Dipodomys, 4 Perognathus (2 species), and 3 Neotoma. One Peromyscus escaped when I open the trap to check what it was.

0945 On the Hwy (1) to San Ignacio via Guerrero Negro

1500 hrs Arrived San Ignacio. Shot lizards here. No sign of gophers although there is good soil and a large oasis with date palms. We will drive to Santa Rosalia since we see rather large clouds ahead which may rain on the road and increase herp activity

2015 hrs Arrived Mulege and checked into a hotel (Tarazana) for 287 pesos for two (night). Collected only one snake

2400 hrs Have taken tissue and prepared several Perognathus

Tomorrow we will drive to Santa Agueda where there is an oasis and vegetable gardens and also look around Mulege for evidence of gophers.

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9 September

0730 hrs Arose and prepared to drive to Santa Agueda

1145 hrs Arrived at Sta Agueda on 10:40. Very hot. no evidence of gopher activity here. Collected several lizards. Spent early morning preparing specimens.

2330 hrs Arrived back at hotel in Mulege. We night-walked at Santa Agueda but only came up with several toads and gekkos. Collected a Spermophilus (from natives) and a Peromyscus in a rock crevice.

10 September

0745 hrs We decided to cut the trip short since collected is so poor. We plan to spend another morning at Santa Agueda collecting herps and then drive to San Ignacio and camp for the night.

11:00 hrs Activity is still rather poor. Spent the morning shooting lizards. We were able to collected 4 or 5 Colored lizards along the road from Hwy 1 to Santa Agueda with a pellet rifle.

12:45. Stopped ~~[illegible]~~ to change money in Santa Rosalia.

15:20. Arrived San Ignacio. Temperature seems cooler here. Definately less humid than the coast.

21:00 hrs. RS and I have set 100 Shermans in two different habitat types. The first (referred to as rocky plateau) was located above the oasis and date palm area where we camped. This plateau overlooked the town of San Ignacio to the southwest. Many cacti, Very rocky substrate. Set 80.

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10 September cont.

Shermans in this area. Majority were set in flat area with some evidence of burrows. Ca. 20 traps were set in a "wall" of small boulders and rocks. ~~[illegible]~~ We also set 20 Shermans in the camp area. Many palms (date) and much grass, few rocks.

11 September

620 hrs. Arose and checked traps. Collected 3 mice from 20 Shermans set in Palms. (2 Perognathus & 1 Perognathus 820 hrs. Have collected 10 mice from the plateau. (8 Perognathus baileyi ? and 2 Peromyscus). Will spend the remainder of the morning karyotyping some of the P. baileyi and taking tissue. We did try shooting lizards (ca. 8:30-9:00 hrs) but the activity was low.
14:30 hrs. Completed cytological work, and have skinned all specimens from this locality. We will load car and drive north to stop at several places where gopher activity was evident.
15:45 Have stopped at Vejcains. RS talked to a man who had collected herps previously and he will take us to an alfalfa field where he says gophers (Topos) are abundent.
20:30 hrs. We were very successful in taking gophers from an ~~[illegible]~~ alfalfa field. Various other vegetable and fruit crops are grown here but gophers prefer this area. Appearantly, as many as 8 men

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11 September cont.

are employed full time to rid gophers from the fields. We took 21 individuals from the fields. We will now drive to Guerrero Negro and rent a hotel room and preserve specimens. Tissue was taken on ~~[illegible]~~ all but three individuals. Five are still alive and will be karyotyped.

2400hrs. We are still preparing specimens. We also collected many snakes (see RS this date) while night driving to Guerrero Negro from Vizcaino. In addition we collected 2 Dipodomys (2 species)

12 September

0830 hrs. Turned in after skinning and making skeletal preparations of all material except 4 live gophers. Will karoftype after several hours sleep

0830 hrs. Arose and prepared to Karyotype. Will try to keep one individual alive and karyotype three.

1130 hrs. Preparing to leave Guerrero Negro. We will drive north and stop briefly at two localities with definate gopher activity.

1330 hrs. Collected one gopher along the Hwy. where an arroyo crossed underneath. The traps were set ca. 7m from the road and ca. 12m from some standing water. The water table was just below the burrow system. Part of the system (where the individual was taken) crossed the moist area. The soil contained many

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12 September cont

rocks and pebbles. Much large grained sand with some layers of clay. The burrow at this point was ca. 9 cm. below the surface. A rock was also turned near this area and a large burrow was uncovered. The soil here was much more friable and I assumed this area would be the animal's food cache area and den. Collected the specimen after 20 minutes in the gravely-sandy runway. The animals was already dead and beginning to stiffen, so I assume he was taken within 10 minutes of setting the trap. Locality is Santo Domingueto, 15.1 mi. S (by road) Puenta Pieta.

1640 hrs. We stopped at Puenta Pieta and excavated several gopher burrows but were unable to collected any animals.

2310 hrs Arrived at border crossing south of San Diego. Prepared all material while driving; except a Spermophilus shot by RS in San Ignacio.

2340 hrs. We able to cross border and declare specimens without difficulty. Rented a room at motel 8

13 September

800 hrs left for Berkeley.

1630 hrs Arrived Berkeley and unload equipment.

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MEXICO FIELD TRIP

Journal

6 December (Saturday)

1400 hrs: Ed Heske (EH), David Good (DG) and I left Berkeley for Mexico. The main objectives of this trip (for me) are to collect Heteromys and secondarily pick up samples of Peromyscus. Regarding the Heteromys, I first need to collect H. nelsoni from southern Chiapas (known only from Cerro Mozotal and Piriabete). The second main objective is to collect tissue samples of Heteromys from the Catemaco, Veracruz area. EH is accompanying me mainly to learn about collecting in the tropics and take part in field Karyotyping etc. DG is going along to collect lizards and skinks and to help me rodent trap when he can. We plan to drive to Mexico City to obtain permits, then travel to Chiapas

7 December

0630 hrs. Awoke and prepared to leave hotel. We stopped in San Bernardino California about 2130 hrs last night. We plan to drive as far as possible today and cross the border tomorrow at Juarez, as we must exchange dollars for pesos and the banks will not be open until tomorrow morning.

8 December

0600 hrs. Prepared to leave Motel 6 South in El Paso, TX. We need to purchase a few more supplies for field work, fill gas and water cans, buy Mexican auto insurance, and exchange dollars for pesos

1030 hrs. We have accomplished the errands mentioned above and are preparing to cross border.

11:30 hrs. After a minimal delay due to red tape, we are on our way to México City.

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9 December

10:00 We have driven all night and are now in Queretaro. Our route taken was Juarez, Chihuahua, Torreon, Zacatecas, San Luis Potosi, Queretaro.

1330 hrs. Arrived México City at Permit office located at corner of Isabel la Catolica and Netzacoytol sp.? To get there, follow the Reforma into downtown all the way to where Reforma merges with Benito Juarez. Follow Juarez until it hits the main square (if necessary). Before this Isabel la Catolica will cross but it is a one-way street and two for up where it hits Juarez. One must parallel Isabel de Catolica until Netzacoytol is reached.

1630 hrs. Have checked into a hotel on Netzacoytol two blocks from the Fauna Silvestre office called Playa Hotel. We will have to wait until 10:30 tomorrow morning until the proper person is available to hand out permits

10 December

0830 hrs: Arose and ate breakfast:

0930 hrs: Checked in at office and were told to return in one hour

1030 hr.: Unfortunately, they have DG's permit ready, but not EH's. Ed did not bring a copy of the required documents so there is no chance of getting one (and apparently the first was lost in the mail). We will now have to check in with the office on the return route in hope of getting the permit at that time.

1230 hrs Finally out of México City. The air pollution is absolutely awful!

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Journal
11 December (3)

0230 hrs Arrived Puerto Arista after driving all day and night.

0630 hrs Arose.

0730 hrs. Talked with Alvaro Gonzales (Ali) and did not find out too much concerning the whereabouts of Cerro Mozotal. We have located Pinabete on various maps. We plan to drive up to Pinabete and stop today.

0845 hrs. Arrived Tonalá after having breakfast at Ali's restaurant. We need to pick up ice, tortillas, and drinks.

1030 hrs Arrived Huixtla.

1045 hrs Attempted to drive to Pinabete North from Huixtla, but we informed by several natives that it would be impossible from here.

11:15 hrs mi. ~~[illegible]~~ 76.5 : To a road from Tapachula (~~right~~ left hand) turn past Pemex in center of town if coming from Huixtla.

11:30 hrs mi 80.8 cut-off to a hydroelectric plant. Road is good, paved. There are areas of mature tropical lowland forest on either side of the road, although on steep hillsides.

ca. 1150 hrs. Road becomming full of potholes mi. 85.0 - town of Chapultepec.

ca. 1225 hrs - mi 92.3 El Eden elev. ca. 400 m. less habitat more fincas instead, road now bad (not paved) but passible

ca. 1300 hrs mi 97.8 - Finca ? of Brasil.

ca. 1320 hrs. mi 99.8 Nuevo Aleman. We talked with a man here who stated that the road was not good enough for us to make it up to Pinabete. Instead, he suggested we take the left hand turn in the road we saw just

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Journal (4)

before we drove into Nuevo Alemania. This road should take up back to Huixtla.

1630 hrs Arrived back on main highway to Tonalá. The road back from Nuevo Alemania was very bad. The only turn we had to make was bearing to the right side of a fork in the road. Some decent undisturbed looking habitat along this route.

1650 hr. Arrived at patch of mature vegetation on either side of highway [15.5 mi SE (by Road) Mapastepec, 50 m]. We will set traps here and net bats

1940 hrs. Arrived Huixtla and checked into a hotel. I set 60, EH 40, and DG 40 shermans at the locality where Heteromys and L. gymnotis were collected last summer (1979). We were going to camp there and set bat nets, but a native warned us that it was too dangerous since bad men travel through there with pistols. I was skeptical, having camped there before, but the consensus was to leave the area and come back to pick up traps in the morning. The hotel we are staying in is called "Molano" and is located ca. 6 blocks to the right side if driving through Huixtla from Mapastepec side. The hotel is located on the same street that goes by the town square.

2330 hrs. Turned in. We must get up early tomorrow so that are licence plates are not taken as were are illegally parked.

12 December

0600 hrs Arose and quickly gathered our personal gear.

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Journal (5)

0630 hrs. Left hotel Molana and drove back to trapping locality

0845 hr. Out of sixty sherrmans I have only collected 4 P. gymnotis Ed and David collected 1 gymnotis each. No Heteromys! I will save, hopefully, some of the P. gymnotis alive to take back for chromosome banding.

0920 hr. Stopped to get gas in Huixtla. Our plan today is to head for the town of Motozintla de Mendoza. The road to this town heads roughly northeast from Huixtla. On another map, there are only two high peaks given. The first is Volcan Tacana, and the other is unnamed to the northwest of Motozintla de Mendoza (hereafter abbreviated Motozintla). Whenever we ask directions to "Cerro Mozotol"), the natives reply Motozintla? I though at first perhaps they could not understand our Spanish, but perhaps the high peak is also called Motozintla?

0930 hrs. mi. 21.9 Turned off main highway at Huixtla (north from Pemex in Tapachula side of town) and head ~~east~~ along a freshly paved road.

mi. 25.0 - Town of Manacal

mi 28.4 Nuevo Tenochtitlan

mi 28.9 Crossed the Rio Huixtla

0955 hrs mi: 29.9 Passed turnoff to Col. Morelos. Once again, this road seems to have areas along either side of mature relatively undisturbed lowland rainforest.

1015 hrs mi: 35.0 Col. Guadelupe. The road is unpaved in spots, but still fairly good. ca. 600 m elevation.

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Journal ⑥

1025 hrs. mi. 37.4 Passed through town of Beligario Domenguez. The forest appears to be somewhat dryer. The rainforest is still patchey, intermixed with introduced fruit and grain crops.

10:35 hrs mi 42.1 elev. 900 m. Sighted first pine and oak. Not very pristine, a lot of agricultural and lumbering disturbance. The road is fairly good, but is not paved most of the time.

1055 hrs mi 49.5 Town of El Rosario, 1600 m. elev. This is at the summit of a small range of mountains. Completely denuded. Down below there is a town, probably Motozintla mi 56.2 elev. 1200 m. Town of Motozintla. To the northwest there is a tall mountain, hopefully Mozotal!. There is a road that skirts the town which we will take in hopes of finding a road up the mountain.

11:10 hrs mi 56.2 ~~Motozintla~~ Mazapa 1050 m. We must have come too far as this road (very good, paved) is heading towards Guatemala.

1130 hrs. Have driven into downtown Motozintla, and asked directions as to the whereabouts of a road. Here the people do refer to the mountain as Cerro Mozotal. Apparently there is a "ugly" but passable road for a truck or carryall type vehicle.

1330 hrs mi. 90.4 have driven up to top of mountain where there is a telecommunications installation in ill repair. The last mile of road is good cloud forest. Pine and oak with many bromeliads. We gave a ride to a person who lives in El Porvenir (take right fork of road at mileage 89.5 to this locality).

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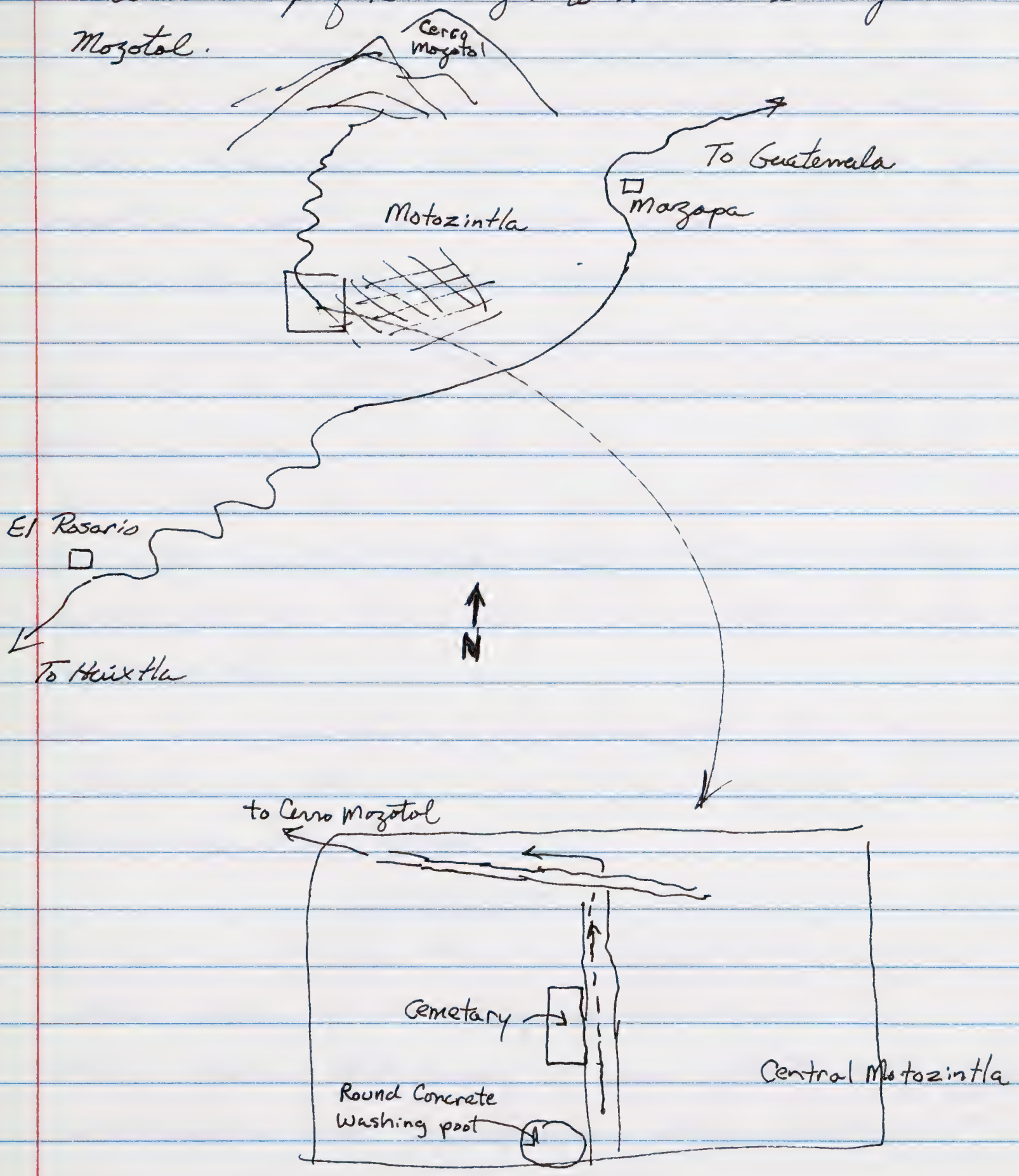
Below is a map of how to get to the road leading to Mozotal.



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Journal (8)

1320 hrs. Temp. is 14°C on the summit, plus winds of 20-40 mph. Elevation 2850 m. We stopped here to eat lunch. Plan to set out traps at various elevations below. For about the last 3-4 miles there has been good vegetation in spots but the slope is very steep. The road up the mountain as is would be passable in a VW bus, Pickup or Carryall type vehicle like ours.

1930 hrs. Set trap 0.7 miles below summit in cloud forest (60) elev. 2800 m

1940 hrs Set traps 3.1 miles below summit in dryer forest of Oak and Pine. Elev. 2450 m (60 traps)

1630 hrs. We have just finished setting a third set of traps between the first two. Elev. 2700 m. (60 traps) mileage is about 9.7

1720 hrs. Drove back down to the lowest of the three trapping localities where there is a place to pull off the road. We will camp here tonight.

13 December

0650 hrs Arose to check traps. We camped at the 2450 m elevation locality (10.8 mi NW by road Cerro Mozotal).

0730 hrs. Returned after checking 20 traps. Collected 2 Peromyscus which appear to be P. guatemalensis. David collected 2 P. boylii, and Ed 3 more P. guatemalensis.

0845 hr The last hour was spent caging animals for safe-keeping. The temp this morning was 9°C.

1510 hrs. Due to car trouble, we were unable to check other traps as of yet. The battery had run down and I was unable to start it by coasting downhill (auto-transmission)

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Journal ⑨

I took a ride on a truck (40 pesos) down to Motozintla. A man from Mexico City on the bus helped me find a mechanic. (11:00 hrs). He said to come back in three hours and we would go up the mountain. David and Ed stayed behind to watch the car. While waiting I purchased some supplies.

1530 hrs. As I left with the mechanic and two helpers who had driven as far as the outskirts of town, I saw Ed and David in the truck. They explained that just after I had left in the truck another vehicle drove up and had jumper cables and were able to start the carryall. (A previous attempt had failed). Ed had looked for me in town but had not found me, leaving David on the outskirts in case I drove by. They were just turning around to go and check traps when they saw us coming

1610 hrs Arrived at second trapping locality (12.6 mi (by road) Motozintla de Mendoza, Cerro Mozotal. 3200m

1650 hrs Finished checking these traps which were set on a very steep hillside. I collected 2 *P. boylii*, ♀♀ 1 *Neotoma mexicana* and 2 *P. guatemalensis*, and David 1 *P. boylii* and 1 *N. mexicana* (out of 20 traps each). Several of the mice collected in the morning are dead so I put them on ice and will take tissues later. This locality consists of mixed pine and deciduous trees, with bunch grass and moderate undergrowth.

1820 hrs Completed checking traps at highest elev (2800m)

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Out of 20 traps each, I collected 3 P. guatemalensis, Ed 3 P. guatemalensis, and David 1 P. boylii. This locality is wetter than the other two, with more moss and ferns and bromeliads. This and other localities have been moderately logged.

1845 hrs Finished setting another 20 shermans this locality. Ed did also. We picked up the traps from the lowest locality, but left the traps at the 2700 m local.

Total traps out this night: 160 (60 at 2700m, 100 at 2800m)

2125 hrs. Prepared 2 P. boylii and 2 guatemalensis.

No Heteromys have been taken. I hope this is because they are rare and further trapping will yield at least several. We will stay here for several more days.

14 December

0635 hrs Arose and got dressed. Last night the clouds were below us in elevation at first, but with nightfall the clouds rolled in. Later (ca. 2100 hrs) the fog thinned out. This morning it is very clear and the clouds are once again below us. It is like looking out the window of an airplane.

0820 hrs. Returned after checking the two traplines at the 2800 m elev. locality. No animals in the first line of twenty set the night before last, but the other line yielded another P. guatemalensis and a Heteromys nelsoni! I was really excited to catch this animal since the vegetation where the trapline was placed was the best I had seen thus far. The H. nelsoni was trapped among several trunks of the

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Journal (11)

same tree. Each trunk ca. 10 in. in diameter. The vegetation along this trapline was different from all other areas trapped thus far. Many ferns and herbaceous plants, some leaf litter, but not predominating. vines and bromeliads were also very prevalent. The soil was very dark, humus in nature, many small rocks. The area had been thinned out, there were many fallen logs, and the forest floor was rather open.

0840 hrs David collected another P. boylii and a Reithrodontys (fulvescens)? His trapline also yielded another Reithro of the same type which was caught yesterday morning and which I overlooked until this morning.

0850 hrs Ed returned with a second H. nelsoni ! He also caught 2 P. guatemalensis.

1030 hrs I have spent the last several hours taking tissue and skinning the two Neotoma and a P. boylii. I also prepared a P. guatemalensis as a skeleton only. In looking at all the individuals of larger Peromyscus I am collectively calling guatemalensis, there is much variation in size of the buffy pectoral patch. Some individuals have only the faintest hint of buff, while other have a neckerchief shaped area of buffy coloration. All have black eyerings and dark at base of vibrissae. The forefeet are all white, the hindfeet has dusky extending to the distal tarsal area in some, and in others only midtarsally. The individuals with the larger buffy area are also browner laterally than the other mice lacking the distinct buffy patch.

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Journal (12)

1230 hrs: After spending some time reorganizing the animals and eating lunch, we are preparing to drive down to the 2450 m local and pick up those traps.

1435 hrs: Arrived back at our base in the 2800 m base camp area. I took another two *H. boylii* from my trapline set on a steep hillside with boulders, pine and some deciduous trees (opause). Ed and David did not catch any animals. While moving the traps holding the live animals a wire was loosened and one of the Heteromys escaped. I managed to recapture it however.

1580 hrs: Ed and I repaired broken Shermans and arranged traps. We plan to concentrate our traps in areas near where the first two Heteromys were taken

1745 hrs Returned to camp after setting 40 more shermans on the wet side of the hill just behind a large cleared out area where I believe vehicles were kept when this road was built. I also pulled out the twenty traps set above the road and moved them to the hillside opposite. Total traps out: myself, 80; Ed, 60; David, 60. Of these 100 traps are in habitats similar to where the two Heteromys were taken this morning.

1935 hrs final entry today. The weather was cooler today as clouds moved in ca. 1000 hrs. We can see thunderstorms tonight over in the direction of Volcán Tacaná. Ed saw three squirrels this morning, David spotted a deer this morning as well.

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Journal (13)

15 December

0650 hrs Arose and dressed to check traplines

0900 hrs Returned after checking eighty traps. Collected three more Heteromys nelsoni in the areas where it was very moist. Also captured 2 P. guatemalensis in this area. The trapline set on the dryer slope yielded one P. guatemalensis.

1930 hrs After eating breakfast, prepared to take tissue and prepare specimens of 11 P. guatemalensis. David plans to take the carryall down the mountain and collect salamanders. Ed and I will stay here and tissue the animals.

1200 hrs David returned, having collected only one salamander. He said it was much hotter down below. The clouds are still below us for the most part, but there is still fog now and then at camp. This morning David collected 1 P. boylii and Ed collected one more H. nelsoni and 4 P. guatemalensis.

1340 hrs. Completed taking tissue and preparing study skins of the P. guatemalensis with the help of David and Ed.

1425 hrs Finished eating lunch, Ed plans to move a lot of his traps to better looking Heteromys areas. I picked up a line of twenty set on the dryer (South East facing) slope and will move them to the wetter northwest facing side.

1555 hrs Returned from setting an additional twenty traps where Heteromys were collected.

1650 hrs. Finished cleaning out the cages of live animals I am saving to take back for cytogenetic work. Will spend the next hour or so mending clothes and organizing

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the remaing holding traps.
1820 hrs. Total traps out ca. 200 (80, 60 (David), 60 (Ed).
All traps are set in likely Heteromys areas. It appear that these (Heteromys have a fine microhabitat preference. They are not taken on dryer hillsides with fewer ferns, mosses etc. They are taken only in areas that (at least at this time of year) are continuously wet. They will stand some logging, but are not taken in areas where enough light comes through to drive out ferns + mosses.
2030 hrs. Tomorrow we will pick up traps and leave this local. We plan to get a hotel room and karyotype a series of P. guatemalensis, P. boylii, several Reithrodontomys and of course the Heteromys nelsoni. We plan to stay in Huatusco and trap nearby along road to Motozintla de Mendoza while karyotyping. Hopefully we will collect some H. goldmani

16 December

0650 hrs Arose and prepared to check traps. The wather is good, cloud banks are below us, no fog up here.
0905 hrs Checked and picked up 80 traps, all set in likely Heteromys habitat. Collected only a single Reithrodontomys The animal is very large for a Reithro, but still may be a fulvescens. It has a black eyering, tawn dorsal pelage and dark basal hairs typical with pinkish ventally. Tail is solid black, slightly lighter ventally.

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Journal

0930 hrs Ed returned, having caught one Reithro of the same type and a P. guatemalensis. David collected only a single animal also, a Reithro., but much smaller and less tawney, whitish below. The animal may be a only a subadult, but it is doubtful that it is the same species as the other Reithros we have collected thus far.

0945 hrs. While eating breakfast, we saw a UFO. The moment before I saw the object I heard a swishing sound like a projectile. David saw the first one as well. About 30 seconds later I saw and heard a second UFO. It looked to be very small, flying above the trees, headed towards the peak of the mountain traveling NE to SW. It was shaped like this: ←
No trail of smoke behind.

1025 hrs Packed all the camping equipment and headed for the summit.

1330 hrs. Finished purchasing food in the market in Motozintla & we were unable to reach the summit as the carryall was running poorly. We had to back-up (going downhill!) ca. 2.5 mi. to the camp where we turned around. The vehicle ran better with the air filter taken out. We bought a replacement in motozintla.

1450 hrs. Arrived Huixtla and checked in to Hotel
$440 pesos/night (room for 4 people to give us more room to hang type etc.). On the way down from

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from Cerro Mozotal (about 9 mi from Huixtla) a small boy ran out from behind a truck and was hit by our car. Luckily he was not seriously hurt, just bruised.

1600 hrs Began karyotyping six animals. (3 *H. nelsoni*, 2 *P. guatemalensis*, and 1 *P. bayli*) (DSR #'s 1399-1404)

2005 hr Finished with karyotyping and preparing animals.

2140 hrs Arrived back at hotel room after eating supper. We plan to karyotype tomorrow, then set traps in the evening. The car is still running poorly, it will need to be worked on. If we leave the area tomorrow perhaps I will stop in Puerto Arista and see if Ali is there. He may be able to recomend a good mechanic in Tonalá.

17 December

0640 hrs Arose and dressed

0730 hrs Attempted to find a restaurant open for breakfast without luck. We came back to hotel to karyotype.

1230 hrs Finished karyotyping, taking blood & tissue from eight more animals (DSR #'s 1407-1414). Two animals died during the night (1 Rattus and a *P. guatemalensis*). Later in the morning another two animals (same species) also died.

1310 hrs Returned from eating lunch.

1515 hrs After resting, prepared to set out traps, however, the car stalls out every time it is put in anything but park. We have to get it repaired.

2030 hrs. The car has been fixed. We first looked for

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a mechanic ourselves but were unable to locate one. We then went to a Chevrolet parts store located on the northwest corner of the central plaza in Huixtla. A boy came with us to the hotel but did not know where the gas filter was located. He told us he would get a mechanic over to us. We then decided since it was rather late to just load up the vehicle and drive to Tonalá that night. Then perhaps Ali would be able to help us. The mechanics arrived ca. 1600 hrs and since the car was now running better indicated that we should drive it to their shop. The shop is located across from the PEMEX on the east side of town on the highway leading to Tapachula. They first replaced the gas filter, and the car still ran poorly. They then decided that it was the cables from the distributor to the plugs. The main Chevrolet place located ca. 2 mi east of the PEMEX did not have the correct type. They were going to splice some wires when one of the mechanics got the car to run smoothly by adjusting the carburator.. Total cost $399 pesos ($300 labor $99 for gas filter.)

2145 hrs Turned in after eating supper

18 December

0640 hrs Arose and prepared to leave

0720 hrs Having repacked the car we checked out of the hotel and ~~stated~~ drove to get gas.

1045 hrs We stopped in Tonalá to pick up ice and

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fruit and vegetables. We plan to drive to a locality near Berriozabal according to directions furnished by Mark Engstrom.

1135 hrs Headed northeast towards Tuxtla Guitierez from the town of Arriaga.

1415 hrs Mileage 93.6, arrived ~~Ocozocoautla~~ Berriozabal. When coming from Arriaga side, turn in at the last paved street on the left. Continue on this road until a town square is passed on the ~~left~~ right. Then turn right onto the first available dirt road. Continue for several "blocks" until a "main" dirt crossroad is hit. Also, just as directions for the "Poza de Petroles". Once on the dirt road, must take a right hand fork, then pass through an old hacienda, then after about a mile to 1.5 mi take the left hand fork. Drive until the road dead ends. The locality is: Poza de Petroles, 7 mi N (by road) Berriozabal, 950 m.; Chiapas; Mexico.

1530 hrs Unloaded the traps. David went out hunting for salamanders. Ed and I will set as many traps as we can before dark.

1740 hrs. I have set out 60 shermans in mature, moderately disturbed forest, following the first of two trails immediately to the left of where the dirt road dead ends. All of these traps were set to the west of this trail ca. 100 m. from the dead end. I also set 20 more traps in secondary growth surrounding the dead end area.

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Journal (19)

1815 hrs David and I set up a bat net at the head of the trail.

2005 hrs Netted a Pteronotus davyii. Ed has set out 40 shermans in habitat similar to mine. Total traps out: 120 (100 mature vegetation: 20 secondary weeds). The area of moderately disturbed vegetation is quite rocky, with many boulders. Many vines, some rotten logs. Area looks potentially fairly good. Some large trees remaining.

2040 hrs Last entry. At this point I plan to remain here for two nights, then move on to a mountain locality near San Cristobal (Mt. Zontehuitz).

19 December

0645 hrs Arose to check traps

0905 hrs Out of 60 shermans set in mature habitat collected the following: (18 animals) 2 Heteromys desmarestianus, 6 Tylomys, 8 Peromyscus mexicanus, 1 Scotinomys, and 1 Oryzomys (sp. cozumelae?) From the twenty traps set in secondary jungle growth around the camp area collected 6 animals: 1 Tylomys, 5 P. mexicanus

1005 hrs After eating lunch and caging some of the animals, Ed and I will take tissue and skin a series of P. mexicanus and Tylomys.

1345 hrs Took a break for lunch. Have taken tissue on a series of P. mexicanus (DSR 1417-1428).

1545 hrs Finished pulling tissue and preparing a series of Tylomys (DSR 1435-1441)

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Journal (20)

1750 hrs Completed setting 60 shermans in mature habitat ca 100-200 m from the dead end of the road. The traps were set more in the open (in general) in hopes of catching more Heteromys.

1845 hrs After supper of chile, plan to now finish preparing the series of P. mexicanus and Tylomys as study skins.

2230 hrs Finial entry. Weather this morning and afternoon was warm. At dusk, clouds rolled in and now it is quite foggy with drizzle. We hope for no rain

20 December

0650 hrs Arose and quickly dressed to check traps. The fog is still quite heavy and it looks like it may rain. Must pull traps and be on our ways

0835 hrs It has begun to rain. There are some places in the road on the way out that are quite muddy. If it rains very hard we may be stuck. Of a total of 60 traps, I caught 1 Heteromy, 2 Tylomys, and 2 P. mexicanus (40 traps) 1 Scotinomys
Ed collected 4 Tylomys and 4 P. mexicanus. David also caught 8 animals (1 Heteromys, 1 Tylomys and 6 P. mexicanus)

0850 hrs Finally on our way out of here.

0940 hrs Made it through the muddy areas before the road became to slippery. Ahead to Tuxtla (East) we can see blue sky. We will drive to Tuxtla then to San Cristobal (Hwy 190).

1136 hr Stopped for supplies in Tuxtla.

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Journal (21)

1320 hrs Arrived San Cristobal. Picked up more supplies.
1405 hrs Unable to navigate road that David knew of as power lines were down across it. We will instead head to another place I saw coming in to San Cristobal
1435 hrs Arrived at place I spotted earlier (4 mi W (by rd.) San Cristobal, 2200 ms.) There is a good place to turn of the road just past a sign saying "Tunel" when head toward San Cristobal.
1705 hrs. Arrived back at camp after setting 40 Sherman. The habitat is dominated by pines, with some deciduous mixed in. Very little ground cover. More cover on forest edge near road. Trap success will probably be low.
1725 hrs Began preparing another series of P. mexicanus (DSR 1443-1452)
1910 hrs Took a break for supper. The clouds have rolled in and there is a heavy mist. Very chilly air.
2015. Began preparing the mice
2155 Final entry. The fog has lifted somewhat. We will pick up traps (100 out) tomorrow morning, get gas in San Cristobal, then drive the road north toward Teapa, stopping near Raijon to set traps and hopefully obtain more Heteromys.

21 December

0710 hrs Arose; dressed to check traps.
0845 hrs Returned to camp. I trapped what appear to be 11 Peromyscus boylii. Ed caught 4 P. boylii of 6 of

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Journal (22)

40 traps also, and David collected a P. boylii and a Reithrodontomys sp.

0930 hrs. After breakfast. We will spend some time here organizing the vehicle and taking care of the live animals. Several (7) P. gymnotis died (of the cold) during the night as did 2 P. mexicanus. In addition several P. boylii died in the traps. We take tissue on the gymnotis, and some boylii.

11:15 hrs Ready to break camp. We will drive down into San Cristobal to purchase supplies.

1310 hrs No extra at any gasoline stations. We must now drive to Tuxtla. We plan to drive as far as possible toward Teapa and Villa Hermosa, Tabasco. this afternoon. Hopefully we will reach some Heteromys collecting localities around Rayón, Chiapas.

1420 hrs No extra in Tuxtla. Had to purchase a tank full of nova.

1635 hrs. Stopped to set traps at an area of mature habitat and a place to pull off as well (on gravel hill). There is a mixture of pines and oak and much undergrowth. The locality is

1735 hrs Completed setting out 40 Sherman. The pine trees on the hillsides surrounding the campsight on the gravel hill are actually few and far between. The forest is well thinned out, leaving a lot of vines, secondary

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undergrowth. The clouds are just above us now, it is very windy and fairly cold.

2130 hrs Final entry this day. Finished preparing skins of a series of P. baylii from the San Cristobal local as well as 2 each of gymnotis and mexicanus. The wind has died down and it is clearing up

22 December

0705 hrs arose to check traps. The weather is once again windy, cool, and wet.

0840 hrs Returned from picking up traps. Out of twenty traps set in disturbed areas, with some large trees collected 9 Peromyscus saxacensis? This area was on a hillside with much understory vegetation, many vines. There were a few medium size (ca. .5 m) rocks scattered on the hillside. The second trapline set on another hillside with more mature vegetation yielded 3 more Peromyscus and a Reithrodontomys (probably fulvescens). This area was also characterized by a heavy understory of vines, but more ferns were present, and what trees there were (pines & oaks) were larger.

0855 hrs Broke camp and drove back into town to get a mileage reading. Locality will be 3.9 mi NE (by rd.) Bochil, ca. 1200 m.

1035 hrs. Stopped to eat breakfast and take tissue on some animals. We are at a overlook area above the town of Rayon.

1325 hrs Completed pulling tissue on the Reithro caught this morning

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(#1463), a series of Peromyscus from the Bochil local as well (#'s 1464-69), a series from the San Cristobal local (#'s 1470-75) and three Tylomys from Berriozabal (#1476-78).

1420 hrs Spotted some decent looking habitat above the town of Rayon (3.5 mi SE by rd. Rayon)

1555 hrs Completed setting traps at the above locality (Edward I both set 40). The area I set traps in was very wet, in a small draw with a rushing stream. The ground was very wet-muddy, many vines, not much litter. Very difficult to trap (steep). Some large trees, dead rotting trunks as well).

1630 hrs Returned to a campsight above Rayon (5.1 mi SE (by rd.) Rayon, ca. 1250 m.).

1745 hrs Completed setting a box of 20 Sherman around the camp area, which is a paved area off the road probably used as a staging area when the road was paved. The habitat here is secondary growth ca. 3 m tall. much understory, some bunchgrasses.

2130 hrs Final entry today. Finished skinning and preparing as study skins the 16 animals tissued earlier today. Tomorrow we will quickly check traps and plan to drive to Villa Hermosa. The brakes are making a noise and need adjustment. We will probably check into a hotel and barrel some animals as well. The weather is once again foggy here, and will probably be wet again in the morning. Temp. ca. 18° C.

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Journal (25)

23 December

0650 hrs Arose to check traps & break camp.

0715 hrs Good success! Collected 15 mice from 20 traps (4 P. mexicanus?, 4 P. zarhynchus? and 7 Reithrodontomys fulvescens.

0735 hrs Broke camp and head towards other trapping locality

0845 hrs This locality is 3.5 mi. SE (by rd.) Rayon, ca. 1000 m. Excellent success here also. From 40 traps collected the following: 1 Marmosa mexicana, 2 Oryzomys sp., and 13 P. zarhynchus. Ed did even better (out of 40 traps): 4 Heteromys, 1 Marmosa, and 19 P. zarhynchus?

0940 hrs Drove through town of Rayon. We plan to drive to Villa Hermosa and get a hotel to karyotype. We have determined that there is something wrong with the vehicle and it has to do with the brakes. We have to get them looked at

1245 hrs Arrived Villa Hermosa

1355 hrs Spent the last hour and a half looking for a place to work on our car with no success. Decided to drive towards Veracruz

1545 hrs Arrived Coatzacoatlos.

1635 hrs No mechanic available, but did change $200 for pesos ($2,200). Will drive toward Acayucan

1810 hr Arrived Acayucan. Checked into hotel El Ritz.

2145 hrs After eating at a restaurant on the town square we put up some mice. One of the Heteromys nelsoni from Mozotal died (took tissue #1480). Also took tissues from several Reithros from above Rayon (1485-87) and made skeletal only's from 4 Peromyscus from Bochil (1481-84).

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Journal (26)

24 December

0630 hrs Woke up. Will begin arranging animals for karyotyping

0720 hrs Stopped for breakfast. Plan to karyotype ca. 26 Animals.

1840 hrs. Spent the day karyotyping as planned. Karyotyped, took blood and tissues from the following: 6 Peromyscus zarhynchus (#1488-93); 4 Heteromys (2 from Berriozabal and 2 from Rayon (#s 1494-97); a Marmosa mexicana (# 1498); and Oryzomys alfaroi? (#1499); 2 Peromyscus sp. from above Rayon (# 1500-01); 3 Tylomys from Berriozabal (# 1502-04); 2 P. boylii types (#1505-6); 2 P. oaxacensis? (#1507-8 from Bochil); 2 Reithrs. fulvescens from above Rayon and an Oryzomys fulvescens (1509-1511). Ed and David spent the day preparing the specimens as study skins. 1920 hrs After eating a dinner cooked by Ed I took a break to buy more pins for pinning specimens and to make a phone call (without success).

2040 hrs Collected tissue from several more animals (2 P. zarhynchus #1512-13; 1 P. oaxacensis? #1514; 2 P. boylii (#1515-16); and four more P. zarhynchus #s 1517-20)

25 December

0800 hrs As a Christmas present to Ed and Dave I let them sleep until 8:00!

0845 hrs Began processing more specimens. We will check out before 12:00. Took tissue and blood for several

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more Peromyscus.
1045 hrs Skinned several animals that tissue was taken from, will save these in cooler until later. Have everything packed and ready to drive to Catemaco.
1340 hrs Arrived Catemaco. Filled up with gas, and drove to the waterfront of town to buy ice, then to market for vegetables.
1455 hrs Arrived Playa Escondida (a hotel ca. 20 ENE Catemaco), We will stay here tonight or several more nights while we trap and net bats.
1540 hrs Talked with a man (Bill Schalbock sp?) who is a birder and apparently helped write Walker's Mammals of the World. He now lives near Playa Azul (a hotel ca. 1.5 mi outside of Catemaco. We will eat dinner here and then prepare more specimens.
2100 hrs. Finally finished preparing more skins and taking tissues from the series of P. zarhynchus (#s 1427-43). Did not set traps out tonight. Tomorrow we will set traps in areas previously trapped by myself in 1977 for Heteromys.
2320 hrs Final entry this day. Finished feeding the animals All seem to be doing OK. Must change the litter in some cages tomorrow. Ed and I will arrange the traps tomorrow morning as well. If time permits, I will also wash clothes as I am running low on clean ones.

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Journal (28)

26 December

0810 hrs Arose late.

0910 hrs Finished changing the litter in the live animal cages. I now have ca. 38 live animals to take care of daily. The only casualty this far has been a H. nelsoni from Cerro Mozotal. The animals seem to be doing well. The temperature here is pleasant since a cool front moved through yesterday (it rained in the afternoon and evening). Temperature is about 70° F now. As long as I can keep the mice cool for the remainder of the trip most will survive.

1055 hrs Ate breakfast after washing two pairs of pants. Also pinned out the remainder of the specimens prepared last night.

1145 hrs As it stands now, I plan to stay here and trap for several nights, hoping to pick up a series of Heteromys. I then want to spend a couple of nights in the Tuxtla mtns trapping at any available mature habitat for comparative material of Heteromys. Following this, we will move to Ojo de Agua for several days. Then we will drive to Tuxtepec, Oaxaca and trap in the lowlands a day or two more before moving camp up in the mountains in the Ixtlan area for several more nights. This should put us about 7 January. Then we will begin the long drive home to Berkeley via Mexico City.

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Journal (29)

0750 hrs Arose to check traps.
0830 hrs Arrived at a trapping locality (8.5 mi ENE [by rd.] Sontecomapan ♀, 25 m.). This area is located .3 mi by rd. past the Tuxtlas Biological Station. All traps (except 20 of mine or 120) were set in areas of mature habitat which is extensively interspersed with cleared fields. The habitat is fairly disturbed with some clearing for wood. Not much undergrowth, but what there is consists of ferns and Philoderdron appearing plants.
0925 hrs Out of 40 traps set in the mature habitat, I collected 1 Heteromys and 2 P. mexicanus. From the 20 traps set in dense secondary growth with some grasses on either side of the road I collected another Heteromys, 1 Sigmodon hispidus, and 1 O. melanotis? (may be a couesi).
David caught 2 P. mexicanus and 3 Heteromys from 40 Sherman's and Ed caught 2 Heteromys and 1 P. mexicanus.
1015 hrs Returned to Hotel Playa Escondida and have checked the twenty traps set out in mature but disturbed area near the hotel. These traps yielded only another P. mexicanus, but Ed caught 3 P. mexicanus and another Heteromys from 20 traps set in the same area.
1245 hrs Ready to begin karyotyping after a late breakfast
1550 hrs Finished karyotyping 6 animals (3 Heteromys and 3 P. mexicanus, #'s 1544-49) Took blood and tissue as well. In addition I took blood and tissue on the S. hispidus (OSR 1550) and 4 other P. mexicanus (OSR 1551-54).

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Journal

1730 hrs. Have set out 40 Shermans on a hillside above Playa Escondida where there is mature habitat, then took a shower. The weather has been pleasant today, partly cloudy and warm. Since we have already caught eight Heteromys here, we will probably leave tomorrow as we are a little behind my timetable.
2130 hr. Ate a lot of food at the restaurant, feel satisfied though! We will stuff the remaining rats tonight.

28 December

0745 hrs Arose to check traps.
0905 hrs Returned from checking traps. Collected 8 Heteromys and 3 P. mexicanus. Ed caught 12 Heteromys in the same stand of forest. The habitat was on a hillside, with some herbaceous ground cover, but not over entire forest floor. Quite a few large trees, many vines, fair amount of rocks.
1145 hrs Loaded vehicle after eating breakfast. We will drive to Catemaco, find a hotel, then set out some traps in the nearest decent looking habitat for Heteromys.
1355 hrs Arrived Catemaco. Checked around various hotels and checked into one near the main road (Hotel Cristal 264 pesos)
1650 hrs Completed taking blood and tissues on 6 animals (1555-60). Preparing to go set traps.
1815 hrs Arrived back at Hotel. I have 35 traps out, 20 of which are in a coffee plantation whereas the other 15 are in the secondary growth along the road.

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The habitat on the road was very grassy, with some bushes, weeds. The coffee habitat was very disturbed, not very good for Heteromys. David and Ed each set out 20 traps

2145 hrs Trial entry. Completed taking blood and tissue and preparing six more Heteromys (1561-66). Early tomorrow we will pick up traps, the load the vehicle and drive to San Andres.

29 December

0630 hrs Arose to check traps

0910 hrs Returned from collecting traps. Out of 20 traps set in mature trees and coffee plants I caught 7 P. mexicanus. The 15 traps set in secondary growth and grass yielded 4 P. mexicanus, 5 Oryzomys couesi (one of which escaped) and 1 Sigmodon hispidus. Ed and I David caught 5 mice (4 P. mexicanus and 1 Heteromys?) David caught 1 Oryzomys couesi, 2 P. mexicanus, and 1 Heteromys?. Both set 20 traps.

1130 hrs After having breakfast, packing, and restocking supplies we are leaving Catemaco. We will drive for Cordoba.

1650 hrs Arrived Cordoba and check into Motel Buena Vista (375 pesos/night) We will karyotype this evening.

2220 hrs Completed karyotyping 12 animals (1 Heteromys, #1567, 5 Heteromys 1568-72, and 6 P. mexicanus #1573-78). The weather today was once again cool ca 20°C at night to 27-29°C during the day. Tomorrow we will take tissue and blood on more animals. Then we will drive to the Ojo de Agua local.

Journal

30 December

0810 hrs Arose and pinned out specimen from last evening's karyotyping.

11:20 hrs. After breakfast and making slides from animals karyotyped last night we are ready to begin taking blood and tissue

1555 hrs Completed taking blood and tissue on the following: 15. hispidus, # 1579, 12 P. mexicanus #1580-1589, 1591-2, 4 Heteromys 1593-96, and 3 more P. mexicanus #1597-99. I failed to give the localities for the animals trapped on 29 December. The locality Ed and David trapped was 9.5 mi. SE (by rd.) Cateraco, 50 m, whereas mine was 8.8 mi SE (by rd.) Cateraco, 50 m.

2140 hrs Have spent the remainder of the afternoon and evening repacking the vehicle, ordering the Sherman traps, and changing litter in live animal cages as well as pinning out some animals. Tomorrow we will pick up a few supplies and then drive to Ajo de Agua. We should get there early enough to set out many traps. I would like to pick up a small series of Heteromys from here, then off to the Tuxtepec area. The weather today was once again cool; Cloudy in the morning, partly cloudy in the afternoon. I think rain may be in the offing tomorrow.

31 December

0725 hrs Arose and dressed, ~~packed specimens~~ fed live animals with scratch grain and cabbage.

0925 hrs Finished repacking carryall and preparing to depart

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Journal (33)

0940 hrs ca. 4 mi E (by rd.) outskirts of Cordoba is a road to Potrero mi 48.4 that goes to the left (north.). The objectives of these directions are to get to Ojo de Agua.
mi 48.7 cross over river, soon road turns to the right, and you pass an old Hacienda, converted now to some government agricultural installation. Mileage 49.8 take a left hand turn, now in town of Potrero Nuevo. Mileage 50.1 cross over railroad; 50.2 road bends to the right; mileage 50.4 take right hand fork; mileage 51.5 continue straight ahead at this road junction; 51.7 take right hand fork in road; 51.9 turn left onto a larger dirt road 52.7 take left fork in road, then continue on this road until it dead ends (mileage 54.7). At this point, trails lead to the right, ca. 500 m is the Ojo de Agua or Ojo de Rio Atoyac.)

1545 hrs Completed setting out 80 Shermans. The majority of these are set in dense undergrowth. The area is very rocky, little leaf litter. Many areas are thinned out, some large trees remain. In this same area last year, (June) Heteromys, O. melanotis, P mexicanus, and B. taylori were collected.

2205 hrs Two bat net which were set out earlier in the evening have thus far yielded 1 Rhogeessa tumida, 6 Myotis nigricans, ca. 30 Sturnira and several Micronycteris? The latter two species were all released. Tissues were taken on the Rhogeessa and a M. nigricans

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Journal (34)

1 January

0720 hrs Arose to check traps

0940 hrs Out of 80 traps set along a trail toward the Ojo de Agua (60) and twenty set away from the trail to the Ojo where the road dead ends collected the following from a total of 34 animals: 7 Heteromys (one escaped) 26 P. mexicanus, and 1 Oryzomys fulvescens. Ed collected 22 animals from 80 traps of the following forms: 1 Heteromys, 20 P. mexicanus, and 1 Oryzomys fulvescens.

1130 hrs Departed this locality after shifting the Heteromys and oryzomys into different holding cages, feeding the live animals and having breakfast.

1425 hrs Arrived Tuxtepec, Oaxaca, traveling south from Cordoba towards Veracruz until a turnoff to the right towards Tierra Blanca, then to Cd. Aleman., then another right toward Tuxtepec. Along the way we stopped for fruit and bread

1505 hrs leaving Tuxtepec after buying vegetables and filling up with gas. We need ice as well, but must return to Tuxtepec tomorrow as today most places are closed for the Holiday.

1535 hrs Arrived at tonights collecting locality (25.8 mi SW (64 rd.) Tuxtepec). This area is a small stand to the right of the highway (northwest) where Heteromys have been taken on two previous occasions.

1705 hr Returned to camp (at town out in rd.) after setting 40 Shermans. The area is moderately disturbed, rocky with

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many boulders. Herbaceous plants and a little leaf litter on the ground. Ed is also setting 40 traps in this area at present.

1830 hrs Stopped for supper. We have been preparing a series of P. mexicanus from Ajo de Agua.

2135 hrs Completed skinning a series of 15 animals, plus taking tissue on six more P. mexicanus (#1623-28). Also skinned another 4 for skel. only preps. Tomorrow we plan to check traps, drive back to Tuxtepec to buy ice and more supplies. then head toward Oaxaca City, stopping at at least two localities along the way. At this point we will return to Mexico City. I am uncertain whether we will go via Oaxaca City or through Cordoba-Puebla. The fastest way will be the best.

2 January

0710 hrs Arose to check traps

0920 hrs Completed checking traps. Caught only 2 P. mexicanus from 240 traps. Ed also caught 2 P. mexicanus from 40 traps.

1130 hrs After breakfast and taking care of some live animals, as well as preparing 2 skel. only's from P. mexicanus that died in the night and taking tissue on a Heteromys from Sonteconapan.

12:00 hrs Picked up food, gas and ice in Tuxtepec. We will now drive up in the mountains to Vista Hermosa.

1330 hrs Arrived at a pull off area below Vista Hermosa

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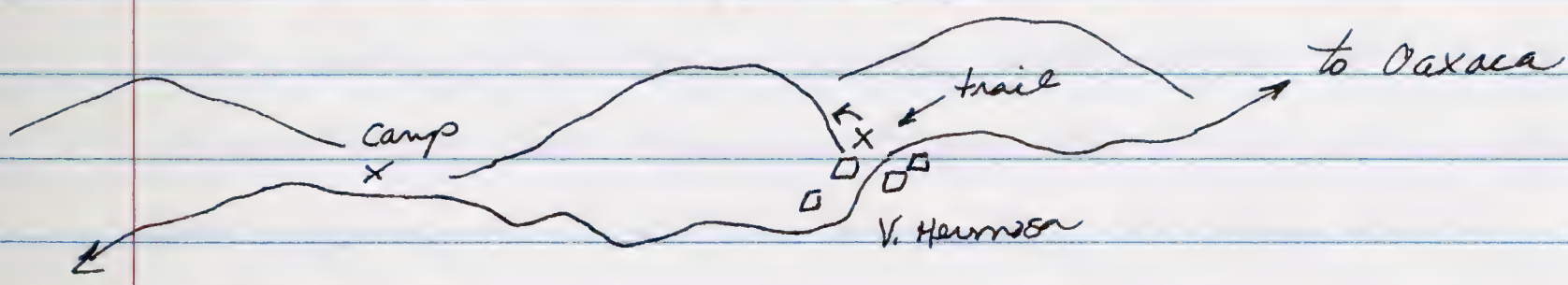
Journal (36)

1530 hrs. Completed preparing 11 P. mexicanus skins.
I left the car headlights on and the car will not start.
Ed and I will walk up the road to Vista Hermosa to
see if anyone has any cables.
1620 hrs Arrived back from Vista Hermosa no cables there.
Luckily the town was only ca. 700 m up the road.
I am going to set some traps near town. The weather
is bad: ca 55° F and raining
1740 hrs Arrived back at camp. The area in which I set traps
was off a path that began to the left at the middle of town
and descended rather quickly. Traps were set above and below
the trail ca. 300 m below the town.



2100 hrs We had to fix and eat food in the vehicle as it
was cold windy, and raining. Temp ca. 10 °C. We
prepared a series of P. mexicanus from Ojo de Agua.

3 January

0700 hrs Arose to find the weather had cleared. Temp. ca. 8°C.
I will check traps while Ed and David remain in camp.
0840 hrs Returned to camp. From 40 shermans I collected
8 P. mexicanus, 8 Oryzomys candatus, and 2 Heteromys.
1155 hrs We have spent the morning preparing more study
skins. I also took tissue on 3 O. candatus, on of

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Journal

which had died in the traps during the night.

1330 hrs Stopped at a locality ca. 16.6 mi SW (by rd) to Esparanza. The mileage is not exact so we will take a reading from the next town.

1620 hrs The weather is still clear. I have completed setting 60 traps: 20 of these are on a dry-western facing slope in secondary growth and another 40 are placed in a moist eastern facing slope of mostly oak with little pine. Leaf litter is thick, much moss on rocks and trees. There are quite a few fallen logs. The slopes are roughly 35° grades. Many epiphytes cover the areas as well. We will camp here tonight, pick up traps in the morning, and drive further southwest on this road to a locality Ted Papenfuss gave David for salamanders and lizards. Ed is at this time setting 40 traps on the wet facing slope. (The dryer slope is predominantly pine.)

4 January

0810 hrs Arose after a cold night. There is frost on everything left out from last night. I briefly checked the live animals and they seem to be OK.

0915 hr Returned from picking up traps. Collected 10 animals from 40 traps set on the wet slope (6 P. melanocarpus, 3 P. thomasi, 1 Oryzomys alfaroi). Collected 4 P. melanocarpus from 20 traps set on dry slope. Four of the melanocarpus (3 wet, 1 dry slope) died during the night. Ed caught 8 animals (7 P. melanocarpus and 1 Reithrodontomys fulvescens?).

Duke S. Rogers
1981

Journal

1000 hrs Took tissue on the fine P. melanocarpus (#'s 1656-1660) and 3 P. mexicanus that died during the night (#1653-55).

1105 hrs Broke camp and headed for the summit

1130 hrs Locality at last night's trapping was 5.2 mi NNE (by rd.) El Machin. This locality if taken from La Esparanza is ca. 17.4 mi SE (by rd). It consisted of a pull off on the highway .7 mi below the summit.

1340 hrs For the last couple of hours we have been driving toward Oaxaca. We are now stopped at a locality that is 2.7 mi from the main highway to Oaxaca City. The dirt road headed right at the summit before winding down into Oaxaca. The sign for the houses in the area is La Cumbre.

1700 hrs. Ed and David have been out collecting salamanders for the past several hours while I skinned the mice from this morning and fed the live mice.

1740 hrs After preparing eight mice we left the salamander locality (Ed and David collected ca. 30) and drove toward Oaxaca

1830 hrs Arrived outskirts of Oaxaca and checked into a motel Costa Rica ($350/night).

2020 hrs Final entry. Tomorrow we will drive to near Puebla. We have to check on a collecting permit for Ed, and the proper person is only in his office in Mexico City around 10:30 in the morning. We will leave in the morning and arrive Mexico City around that time.

Duke S. Rogers
1981

Journal

5 January

0740 hrs Arose, fed animals, had breakfast.
1020 hrs Preparing to leave motel.
1100 hrs. Several animals died during the night. An O. candatus from Vista Hermosa and a P. melanocarpus from El Machin. I took tissue on both animals and prepared them with the help of Ed while David is driving
1630 hrs Decided to drive through to Mexico City.
2130 hrs Checked into a hotel first one block down from the permit office. Either due to the heat of the vehicle in city traffic, driving or both I have lost another six animals. I must prepare and take tissue on all of them.
2320 hrs Completed taking tissue and Ed helped me skin the following: 2 Heteromys (1 Rayon, 1 Ojo de Agua DSR 1662, 1663) 2 O. candatus (V. Hermosa DSR 1661, 1664, 1665), 1 P. melanocarpus (El Machin DSR 1667) and a P. thomasi (1666)

6 January

0700 hrs Arose and fed animals. No other deaths this morning
0945 hrs No permit to be had for Ed, therefore we must cross border at Juarez.
1130 hrs left Mex. City after rearranging Carryall. We will not do any more trapping.
2030 hrs Arrived at a Motel north of Zacatecas. We stop here. Another P. thomasi died during the day. (#1668)

7 January

0600 hrs Hotel room very cold, we were all awake and decided

Duke S. Rogers
1981

Journal

to leave early to get warm. We will drive north toward the border today and hopefully cross.

0935 hrs Arrived at border (Cd. Juarez). We traveled thru Torreon, Chihuahua to get here. roads fairly good

1215 hrs. No trouble crossing. Declared animals and was not searched, so hassels were minimal. We have driven to Deming, New Mexico and stopped at a Hotel 6 for the night

8 January

0835 hrs Arose early, took care of live animals, bought ice and gas and ate breakfast befor continuing. We may drive straight thrught to Berkeley.

9 January

0530 hrs Arrived Berkeley. All animals are at this point alive and well. The roads were good, encountered rain showers here and there. Traveled via Phoenix, Bleyth, Los Angeles.

Duke D. Rogers
1981

Journal

30 October 1981

2350 hrs David Good arrives at my apt. to drive me to the airport. I am planning to fly to México City and spend aabout 10 days with Stan Sessions and Dave Darda on the last leg of their month long trip in México. Dave Wake is flying to Berkeley in the morning. He has been with Stan and Dave D. for the past three weeks or so.

31 October 1981

0115 hrs Board Mexicana flight 145 for Guadelajara and Mexico City.

0410 hrs Arrive Guadelahara. Have to deboard the plane and fill out tourist papers. I loose my birth certificate in the process

0515 hrs leave Guadelajara for Mexico City (45 min flight).

0605 hrs Arrive Mexico City. Note: I tried to take a liquid nitrogen tank (full) on the plane but the Mexicane people would not allow it. Besides the form for "Shippers Certificate for Restricted Articles" & authorization form from Cargo Mexicana and the captain's signature is appearently required. So I had to dump out the liquid N_2 at the airport and take the empty tank.

0830 hrs (México time two hours ahead) past through customs but had problems with the N_2 tank again. Met Stan and Dave. Had to wait ca. 35 min with noone

Duke S. Rogers
1981

Journal

31 October (cont.)

showing up to clear us. Finally talked my way out of the problem to some other official looking plain clothed people and left.

1000 hrs Change my ticket with Mexicana. We will leave on the 9th of November instead of the 11th. Stan and Dave fly on Pan Am the morning of the 9th, and I leave on Mexicana at 8:45 pm on the 9th as well.

1040 hrs. Left México City without any N2. Will try to pick some up in Orrizaba. At worst, I can maintain the live animals until the 9th and buy liquid nitrogen in México City on that day.

1110 hrs left México City for Orrizaba area. There is a salamander local (Rio Frio) than Stan and Dave want to collect.

1415 hrs. Search a hillside briefly near Rio Frio (about 3-4 km east on the old non toll highway to Orrizaba The area was too dry, we found nothing and moved on.

1600 hrs Search along the old highway to the west of Rio Frio for about 20 km, but found nothing familiar to Stan or worth working over. Decided to drive into Orrizaba and rent a hotel.

1720 hrs. Arrived Orrizaba (got back on toll road at Rio Frio and off at Orrizaba. The town's streets are all torn apart. Stan search around town for awhile and then found a hotel where ~~he~~ we had stayed

Duke S Rogers
1981

Journal

31 October (cont.)

on a previous trip. It was full so we found a room for three with three beds at the Hotel de France (#37.20 pes) 2100 hrs After supper we planned a tentative itinerary for the remainder of the trip which would accomodate (hopefully) both my objectives in coming down and Stan's requirements as put forth by Dave Wake. Tomorrow we will go to a locality at the top of the list in terms of priority for Stan and Dave (a "mountain" near Cuatlapan. I will set traps here as well. Next day, pick up traps, then work near Fortin for salamanders. in the evening, drive to Ojo de Agua and set traps. Next day, pick up traps at Ojo de Agua and drive to another locality at Barranca de San Miguel. For the next two days after that, collect salamanders at either El Berro or Huatosco. The next day, collect salamanders at Puerto de Aire (but set no traps). The following day, drive to Xicotepec de Juarez (takes ca eight hours) and set traps. Next day, pick up traps and drive to Mexico city. Then the following day fly to San Francisco.

2300 hrs Turned in.

1 November

0730 hrs Arose, cleared out of room and went to eat breakfast.

0900 hrs. Purchased ice and food, left to drive to Cuatlapan.

Duke T. Rogers
1981

Journal

0945 hrs Arrived Cuatlapan, which is a company town surrounding a sugar mill about 20 min east of Orizaba along the old non-toll road. The "mountain" of interest to Stan and Dave is located behind the town to the southeast. On the top (east side) there apparently is a remnant patch of "cloud forest" where a certain species of Bendroniscia has been taken. These are needed to compare with other similar salamanders collected this trip.

1035 hrs. Talked with several people here familiar with Salamanders from having been hired by other herpetologists to collect them. Stan and Dave will be accompanied by three people (one is Carlos Ceron) up the cerro to collect salamanders. I will remain near the car at the base of the hill and set out traps in the afternoon.

1235 hrs Took time to number traps with a Sharpie. I plan to wait another 2-3 hours to set traps.

1400 hrs Prepared to set traps. Weather was pthly cloudy this morning (ca. 20%), but the clouds moved in completely by 10:30 and it has been raining since 11:00 hrs.

1540 hrs Returned from setting 60 traps ca. 20 in forest (not mature, but with some rotten logs) on ca. 20° slope. The remainder were placed in secondary brush, vines, and herbaceous growth.

1600 hrs Stan and Dave collected 6 individuals of the species they wanted from the mountain. They also collected two other species (several individuals of each). We have decided

Duke S. Rogers
1981

Journal

to drive to Barranca de San Miguel, off dirt road leading to a part just west of Fortin de las Flores.

1645 hrs While Stan and Dave look for salamanders, I set 20 traps in the area above the dirt road ca 100 m from the beginning of the park. There is about 30 m of habitat before one comes to a cliff ca. 10 m in height. There are numerous rocks, interspersed large trees, vines, and many trees of intermediate height. The forest floor is covered with ca. 15 cm of litter, sometimes less. Elephant ear are common along with herbaceous plant ca. 200-400 cm in height. The area slopes ca. 20° and steepens to 30-40° near the base of the cliff. The area is fairly undisturbed.

1720 hrs Collected an Anolis which Stan examined then released one again

1735 hrs Drove into Fortin to eat supper and secure a hotel.

1755 hrs Arrived Fortin. Ate supper at a restaurante on the town square.

1820 hrs Tried to get a hotel room at two places in Fortin, but were unsuccessful. Decided to drive back to Orizaba and stay at the hotel Trueba since Stan had made reservations there that would be kept until 2200 hrs.

2010 hrs Arrived Orizaba and hotel Trueba.

2300 hrs Turned in.

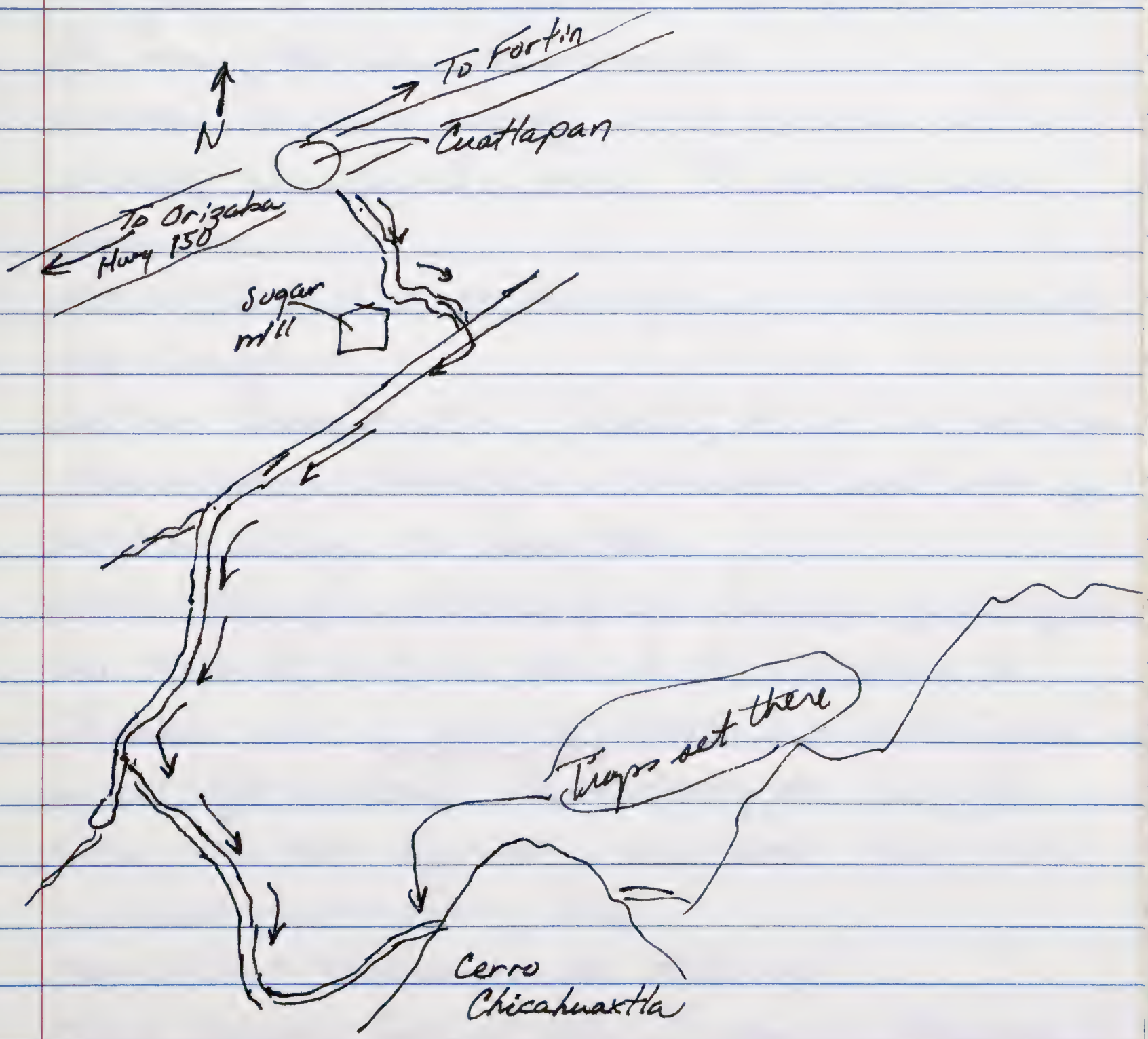
Duke S. Rogers
1981

Journal

2 November 1981

0630 hrs Awse, dressed and left hotel for locality of Cuatlapán.

0735 hrs arrived at Cuatlapan. The town is situated to the east of Orizaba on old road (non toll). The locality trapped is at the base of a mountain 2 km S (by rd.) Cuatlapán, Cerro Chicahuaxtla.



Duke S. Rogers
1981

Journal

0830 hrs Returned from checking 60 traps with help from Dave. Collected a total of 12 animals (4 *P. mexicanus*, 2 *M. guasiater*, 3 *B. musculus*, 1 *Mus*, 1 *O. fulvescens*, and 1 *Reithrodontomys mexicanus*. Only *Peromyscus mexicanus* was taken in the forest. The *Baiomys*, *Mus* and *Microtus* were all taken in grass-brush adjacent to the forest. The *Reithrod* and *Oryzomys* were taken inside brushy areas well away from the forest or cleared fields. The traps were set at the base of the Cerro Chicohexatla.

0855 hrs Completed picking up 20 shermans at a locality adjacent to a park. No animals were taken here.

0930 hrs Arrived at the town square in Fortin and ate breakfast

1200 hrs Arrived at a locality 2 km SW Huatusco. Stan and David looked for salamanders and came up with one between the two of them.

1630 hrs Drove from Huatusco to the locality Ojo de Agua via Mex 131 to Fortin, then on the 150 cuota to Cordoba. Ca. Km E of Cordoba (to Potrero) is a paved road on the left hand side. Traveled along this road for 5 km - then turn left onto a dirt road. Pass under railroad tracks for kms.

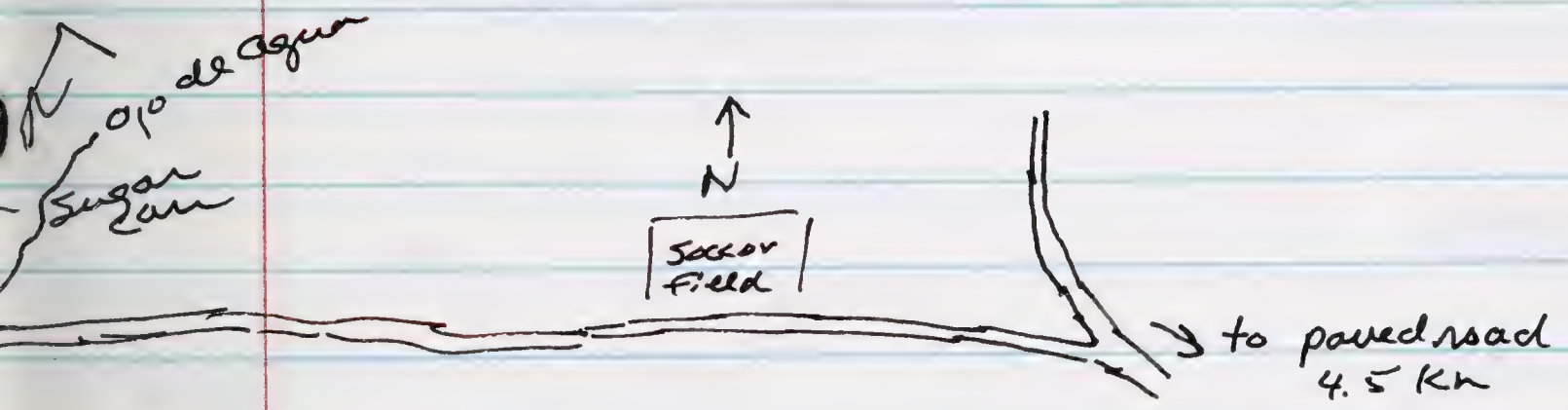
1800 hrs Set 50 shermans for *Heteromys*.

1940 hrs Arrived back at hotel Trocha in Orizaba

Duke S. Rogers
1981

Journal

Sign for Ojo de Agua. Go underneath a railroad tressle continue on this dirt road through sugar cane fields for about 4.5Km, then take a right hand fork in the road. This road will continue for another 1.5 km and dead end at the base of a hill (see below) At the dead end a trail leads off to the right (north) ca. 0.9 Km down the trail is the Ojo de Agua



Sugar cane

1130 hrs Completed picking up traps. Unfortunately, was unable to collect any Heteromys. Collected a total of 13 animals including 2 Oryzomys melanotis, 1 Sigmodon hispidus, and 10 Peromyscus mexicanus.

1210 hrs Arrived Cordoba. Had the flat tire fixed on the eastern outskirts of town for 60 pesos.

1300 hrs After buying ice (blocks) at a Cerveza Carta Blanca establishment next to a Arroz Tropical building located ca. 2 blocks from the turn for the Orrizaba toll road we are ready to drive to another locality that Stan had worked in 1974. The locality is along the mex 150 above the town of Mendoza.

Duke L Rogers
1981

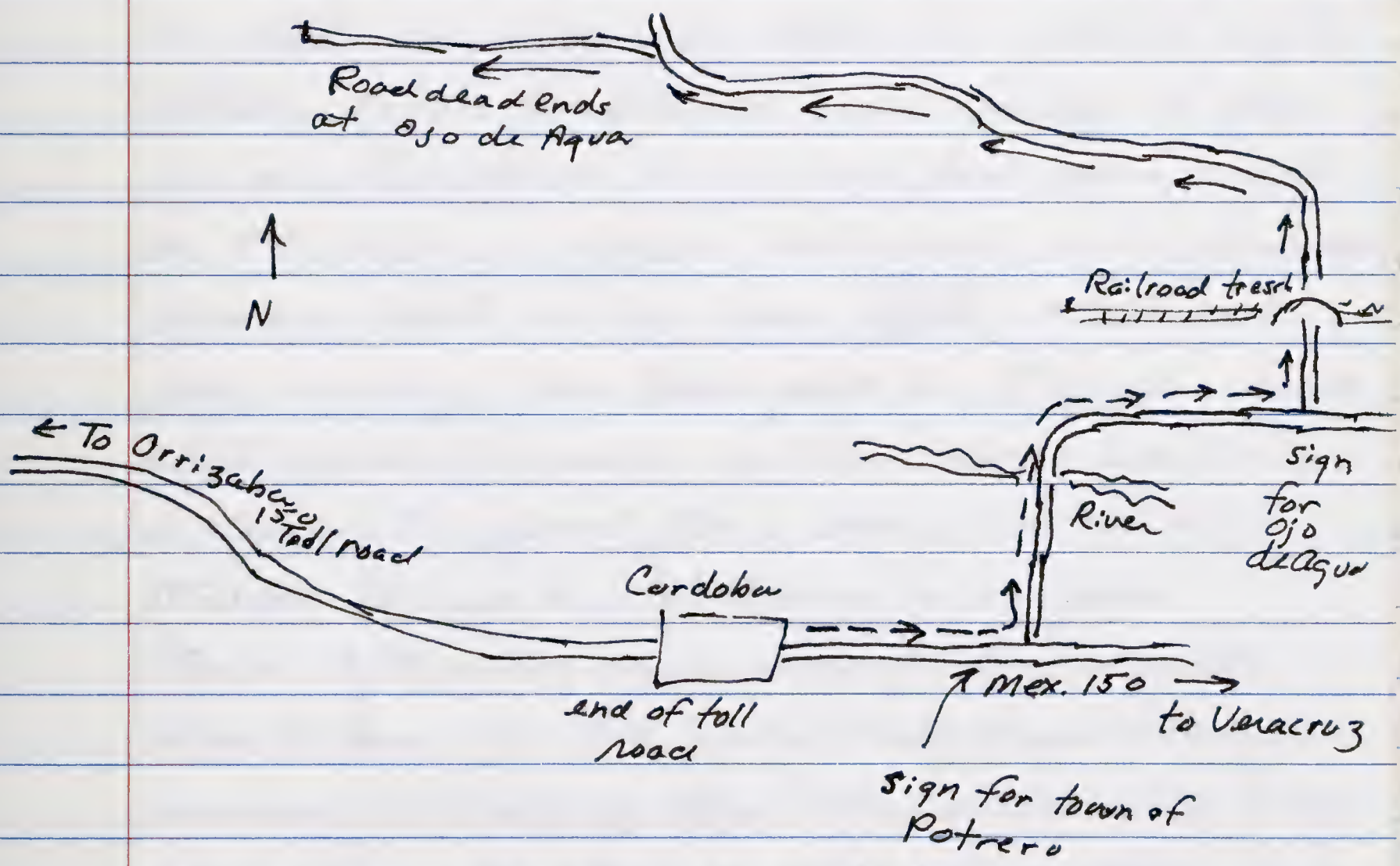
Journal

3 November

0630 hs Arose, packed our belongings and prepared to eat breakfast

0830 hs Finally ready to leave for Ojo de Agua. Right rear tire was flat so we had to change it before leaving Hotel garage.

1000 hs Arrived Ojo de Agua (see map below)



Directions to Ojo de Agua are as follows: From Orrizaba, Stay on mex 150D (toll) to Cordoba, then take all signs for Veracruz (mex 150). ca. Km east of Cordoba will be a road to the left (North) with a sign for the town of Potrero. This road is paved. Continue on this road over a river, through a right hand curve for ca. 5.3 Km. There will be a dirt road to the left (North) with a

Duke S Rogers
1981

Journal

important foron (genus Chiropterotriton) and want to return tomorrow to collect for several more hours. I will therefore set traps here since will be returning 1730 hrs Completed setting 50 shermans in mature and secondary growth habitat on a southeast facing slope. Weather was sunny until ca 1650 hrs when fog rolled in. The habitat consists of mixed pine and deciduous trees (primarily oak). The forest has little understory, leaf litter ca 20 cm in depth Between forests (on hillside) and valleys of grass are situated dense brush and herbaceous plants ca. 1.5 – 2 m in height. Mint family and elderberries. Numerous trails in area: some ~~goats~~ sheep, cattle and pigs nearby. Area looks good for P. bayli. Agave plants growing around pastures. Many bromeliads in trees. The forest floor is damp, but not wet.
1920 hrs Returned to Hotel D'Alba in Ozuizolsa.
2300 hrs After eating supper and feeding animals plan to turn in. We will check traps tomorrow morning at Puerta de Aire, (Stan and Dave will hunt salamanders), then collect salamanders along the road for most of the day

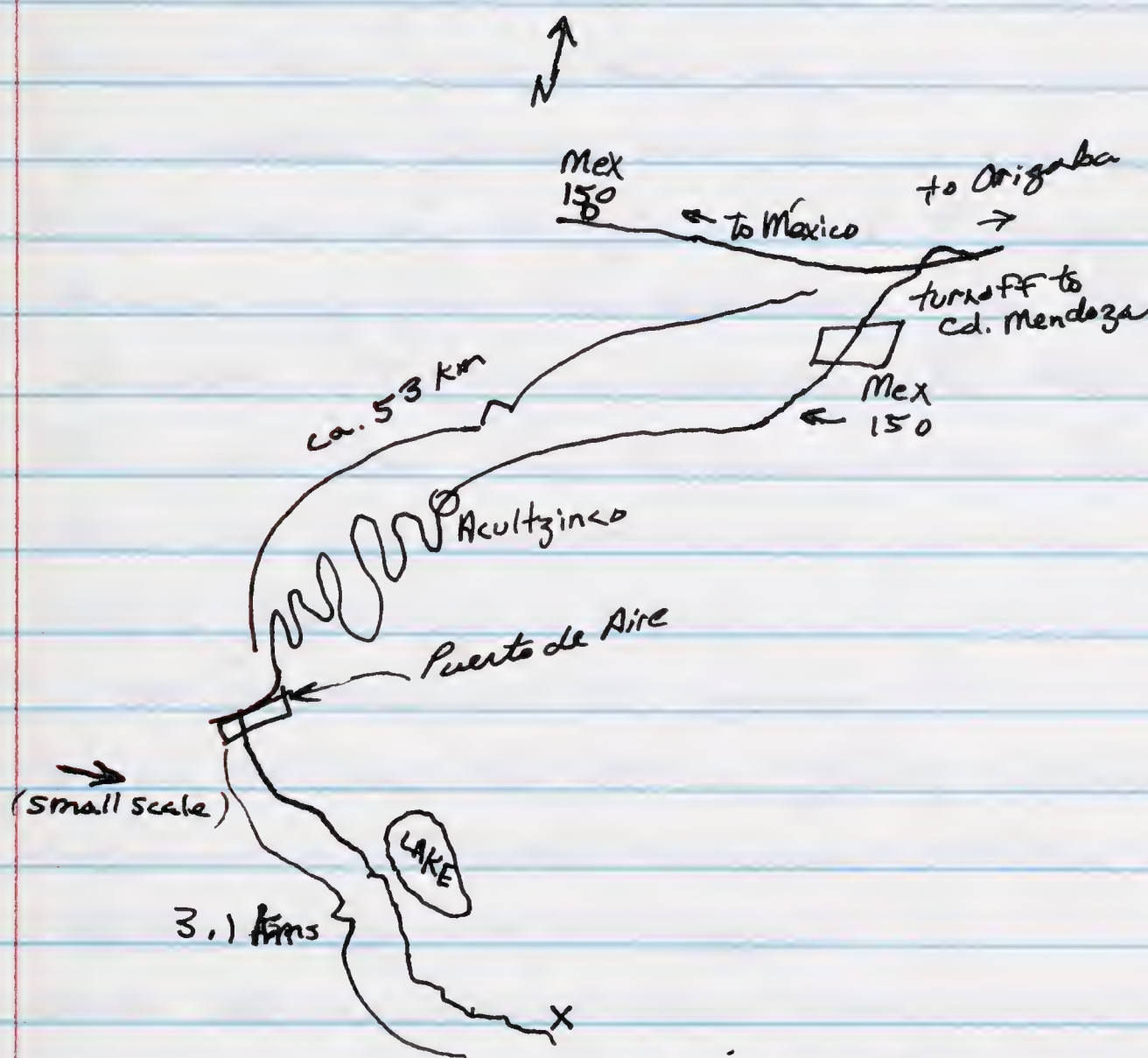
4 November

0700 hrs. Arose, dressed, and cleared out of hotel room
0810 hrs Stopped for breakfast in Acultzingo
0840 hrs Arrived Puerta del Aire local.

Duke & Rogers
1981

Journal

1430 hrs Arrived at a locality 3.1 km S (by road) Puerto del Aire in Veracruz. The map is given below



When heading west from Orizaba, take Mendoza exit. This is now old Mex 150. Continue on this road through towns of Ojo Zarco and Acultzinco. Road really winds up in elevation after Acultzinco. At summit is town of Puerta del Aire (all to the left). Take only dirt road between two buildings). After ca 1.5 km will pass lake on left hand side. Continue for 3.1 km. Here road will become more narrow and steep.

1630 hrs Stan and Dave returned from seaching for salamanders. They have taken several individuals of a

Duke S. Rogers
1981

Journal

0935 hrs Returned from checking traps. I have collected a very rare animal! I trapped what appears to be a *Peromyscus thomasi*! The animal is very similar to specimens of the same species I have taken in Oaxaca (black mask on face - large size). The animal is a lactating female, alive, but in poor condition. This specimen may be referrable to *P. thomasi nelsoni* known only from two specimens from the type locality, Jico = Xico, Veracruz. This local is approx. 100 airline kms from the Puerto del Aire locality. When Stan and Dave get back the first thing we need to do is find liquid nitrogen or dry ice somewhere so the fit tissues can be preserved

1240 hrs Stan and Dave return, having collected more salamanders. The other mammals collected were 1 *Reithrodontomys* and 2 *Peromyscus*.

1600 hrs. We now plan to drive to Mexico City and buy liquid nitrogen there. We drove to several place in both Oaxaca and Veracruz with no luck in finding dry ice or liquid N_2.

1850 hrs Arrived Puebla and checked into Hotel Lastra. We plan to get up early tomorrow and arrive Mexico City early to avoid rushhour traffic.

2240 hrs Turned in. The *P. thomasi* is still alive. I plan to check it during the night. If it dies, I will pull tissues immediately, and put them on ice until we get the liquid N_2.

Duke S. Rogers
1981

Journal

5 November

0600 hrs Arose, dressed, and loaded car.
0640 hrs left hotel and Puebla for México City.
0810 hrs Stopped for breakfast at Río Frío.
1030 hrs Arrived México City. We will attempt to get liquid nitrogen from the place I purchased it in 1979
1345 hrs Returned by taxi to the place Stan and Faircl were waiting. After appox. one hour of searching the area for the Aga plant with no success, hired a taxi and checked out an address. Turned out to be just an Aga office. They gave me another address. The directions to the plant are as follows: When heading north on the Periferico (towards Hwy 57 to Queretaro) take exit to the right — Gustavo Baz. This exit is ca. 2-3 mi north of Chapultepec Park. Gustavo Baz is a main street with two-three lanes each way. Continue on this street for a long way, ca. 7 miles. The street needed for the Aga plant is Rio Lerma. The street is 4-5 blocks (right hand turn) past a streetsign for the road named Tlalnepantla (also going to the right). So: once you pass the street of Tlalnepantla continue on Gustavo Baz for 4-5 more blocks, then turn right on to Rio Lerma. The street address for the Aga plant is Rio Lerma #15. It is on the right hand side of the street ca 0.5 miles from Gustavo. We immediately

Duke S Rogers
1981

Journal

headed back toward Puebla. (South on the Periferico through Chapultepec park) until a turnoff for Mex Hwy 150 and Puebla. From there we headed for any sign for Puebla and Hwy 150
1430hrs. We were stopped by a pair of policemen who wanted money because our vehicle was not supposed to carry cargo, ~~all said~~ just people. I talked them down from 2 ~~hundred~~ thousand pesos or $80 US dollars to $25 dollars. The P. thomasi died within a half hour of my return to the car with the liquid N_2!
1605 hrs. Passed by the town of Puebla on 150 toll road
1935 hrs arrived Orizaba, checked into Hotel de France.
2230hrs We plan to check out a salamander locality ca. 18 miles west of Orizaba. We will then drive to Puerto del Aire where I will set more traps in hopes of collecting additional P. thomasi.

6 November

0630 hrs Arose, quickly dressed and prepared to leave hotel room for El Berro locality.
0705 hrs left Orizaba. Reserved our hotel room for an additional night. The locality is located off the toll road well above the Town of Orizaba.

Duke S Rogers
1981

Journal

6 November (cont.)

0950 hrs Arrived El Berro local. (For directions see Stan Sessions' or Dave Dudas account). I will stay in the van and process animals while Stan and Dave look for salamanders

1345 hrs. Completed processing 11 animals. Eight Peromyscus mexicanus from Ojo de Agua, 2 P. mexicanus from Cuautlapán, and a Sigmodon also from Ojo de Agua. Stan and Dave have also returned: collected some Thorius and another genus. We plan to drive to the Puerto de Aires local so I can set traps and try to pick up more P. thomasi, hopefully in good condition.

1505 hrs Arrived Puerto del Aire local. I will set as many traps as I have with no animals already in them (ca 85).

1710 hrs Completed setting the traps. They were placed in areas surrounding the spot where the first P. thomasi was taken

1820 hrs Arrived back at hotel in Orizaba

1950 hrs After supper, will now try to call Barbara back in the US.

2200 hrs No luck getting through.

7 November

0700 hrs Arose, dressed and loaded vehicle for today's work

0830 hrs left hotel after breakfast for Puerto del Aires local.

Duke S. Rogers
1981

Journal

0955 hrs Arrived locality
1125 hrs Returned from checking traps. Collected 6 animals including 2 *P. thomasi* ♂♂ (one dead, one in very bad shape). The other four animals were one each of *Microtus mexicanus*, *Sorex* sp., *Reithrodontomys*, and a *Peromyscus* (also in poor shape).
1310 hrs Arrived Orizaba. I plan to stay in the hotel room this afternoon while Dave and Stan check out nearby localities for salamanders. Back at the locality I took electrophoretic tissue on the dead *thomasi*, and preserved the glands and part of the seminiferous tubules in 10% formalin. I also took tissue on the *Sorex*.
1730 hrs Stan and Dave return from collecting.
1930 hrs Returned to room from supper. The one ♂ *thomasi* is looking really well. I think he may make it back to Berkeley.
2200 hrs Turned in

8 November

0730 hrs Woke up, dressed, arranged gear, then went to eat breakfast
0920 hrs Checked out of Hotel de France. We plan to drive to Mexico City today, check into a hotel near the airport. Stan and Dave will leave for the airport early in the morning, whereas I will stay at hotel until close to checkout time.
11:15 hrs Arrived Puebla and ate lunch
1240 hrs Back on the road to Mexico City.

Thube S Rogers
1981

Journal

1600 hrs Arrived Mexico city, have checked into a Hotel ca. 3 miles from the end of the toll road on Zaragoza avenue. The airport should be no more than 5-6 miles from here.

1900 hrs. Completed arranging gear for the trip by plane to Berkeley tomorrow. The third and last L. thomasi died. I took tissue and preserved the glands. I also fixed ~~the~~ a femur and ~~fibula~~ tibia in fix and preserved the testes as well I also sacrificed and made skeletons of an O. fulvescens and a M. grasiata from Cuautlapán.

Duke S. Rogers
1982

Journal

Tuesday 13 July

0400 hrs Arose from a bad night's sleep. Today I, along with two other students (Ed Heske and Phil Bryloski, both students of Bill Fiddler) will fly to Costa Rica and spend about a month collecting rodents. The major goals of my work are to collect three species of heteromyids (Heteromys oresterus, H. desmarestianus, and Liomys salvini). The former species occurs only in Costa Rica, and although I have (2 individuals each) samples of both the latter two species from Costa Rica, I hope to improve my samples and increase the geographic area represented. The other data I hope to collect will add to several ongoing studies dealing with Peromyscus and Reithrodontomys. Ed Heske is accompanying me primarily to work in the tropics and to help me out. Phil Bryloski's work concerns developmental problems in heteromyid rodents - and he needs Heteromys and Liomys embryos

0500 hrs Phil Bryloski and I arrived at the MVZ to bring our collecting equipment and personal gear down to be loaded into Jim Patton's VW bus (he is taking us to the airport).

0535 hrs Ed arrived by bicycle ca. 5 min after we did. We are all loaded and ready to go.

0615 hrs Arrive San Francisco Airport. Our flight goes to Dallas-Ft. Worth, then to Miami via American Airlines. We then change airlines and fly Iacona to Costa Rica. Total round trip airfare (30 day max. excursion rate) is $625.00 per person.

Duke E. Rogers
1982

Journal (2)

0645 hrs. We had trouble getting all of our gear taken. We were charged for 3 extra pieces of equipment (the three of each were each allowed two and we had 9 total) at $47.00 per piece! However, I was told that they could have charged by the pound inasmuch as many pieces exceeded the 70 lb. weight limit which would have meant much more money. The agent told us our baggage would be checked through to San Jose, Costa Rica.

0730 hrs Finally took off from San Francisco after traffic delays on the runway

10:45 Disboarded the plane to catch another flight of American's for Miami at DFW airport. - only about 60 minutes to spare.

@16:45 hrs. (Miami time) arrived Miami. We have a two hour wait for the Iaccsa flight. The agent told me that he needed another ticket or stub showing that I had paid the excess charges in addition to the receipt. It took me 30 minutes to take care of after going back to American but luckily I did not have to pay more money.

21:00 hrs Arrived San José, Costa Rica. (One hour ahead of Pacific time).

2200 hrs Check out a Hotel called "Pension Canada" recommended by Mark Hafner, but they were full so we instead went to the Hotel Galeiana referred to us by Harry Greene. Unfortunately, they had no rooms with three beds, so we took two rooms at @ $15.00 + $10.00 each. Some good news, the Hotel is exchanging dollars at 61 colones to

Duke E Pogue
1982

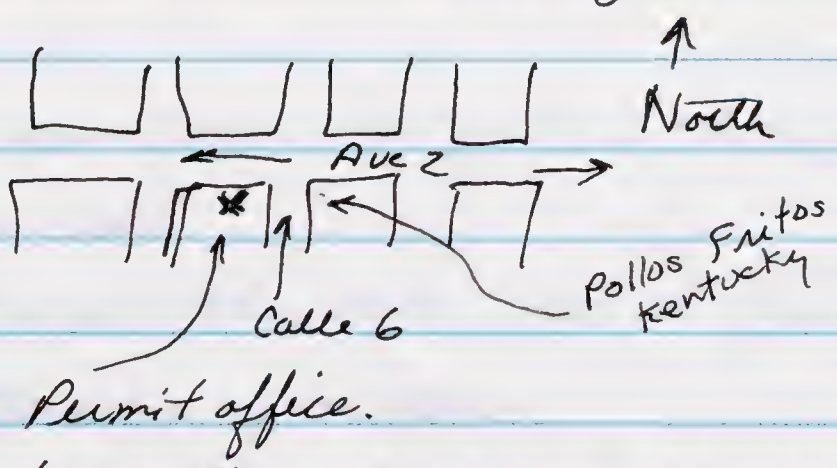
to dollar! Mark Hafner was getting only 48 colones to the dollar last month. Address is Avenida Central y Calle 13
2330 hrs Went to sleep after reading for about 30 minutes.

14 July (Wednesday)

0750 hrs Arose and Showered

0840 hrs Ed and Phil are ready. Our plan is to eat breakfast, then try to go to the permit office and to buy liquid N2
0930 hrs I called Pedro Leon's office and lab. A man named Tonny" who spoke English told us that Pedro would be in around 13:30 hrs. We told him that we would try to be there then.

10:10 hrs We all took a cab to the permit office the directions are taken from mark Hafner - but they are correct and accurate. The office is located near the corner of Calle 6 and Avenida 2. (The streets in San Jose are laid out in an orderly fashion).



The entrance to the office is almost unmarked. It lies between two clothes stores, but does have a title "Edificio Caribe". Walk into this narrow entrance way, go past a guard and either take the elevator or the stairs to the ~~second~~ third floor. Ask for Sr. Edwardo Lopez or the Direccion General

Duke I Rogers
1982

Journal
14 July (4)

de Recursos Pesqueros y Vida Silvestre.

We arrived at the office to find that Sr. Edwardo Lopez was not there. We eventually talked with someone who said the copies of our species lists of animals to be collected would be copied. After this was done, another person told us that simply a list was not enough, but that we needed a complete request. I then told him that we did have complete copies and that our requests should already have arrived by mail. However, only Ed's had arrived and had already been approved. He took our permit applications (mine + Phil's). About 10 minutes later several people met and made decisions regarding permits. Both our requests were approved and we were told to return tomorrow to pick them up.

11:30 hrs. Returned to the Hotel and attempted to buy liquid nitrogen.

13.00 hr. We spent some time gathering the traps together, numbering them, etc.

13:45 hrs arrived at Pedro Leon's lab to find that neither he or Tony Morera were there.

1430 hrs Returned to Hotel. I plan to take a taxi once again to try to purchase liquid N_2. The plant is located at Calle 6, Avenida 16 and is called "Bodega Gases Industriales". The hours are 8-11 and 1 30-5 pm Mon-Fried. and ~~Sat~~. 8-11:00 on Sat. But, they only sell liquid N_2 Mon-Fri from 8:00-10:30 and

Duke S Rogers
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Journal

14 July (5)

1:30 - 4:30. I don't know if they will sell it on Saturdays.

15:45. Was able to purchase the N_2 for $275.40 (17 Kgs at 15.60/Kg.). So it was by weight, not volume

17:00 hrs Returned to hotel Galilea.

1830 hrs Went out to eat supper

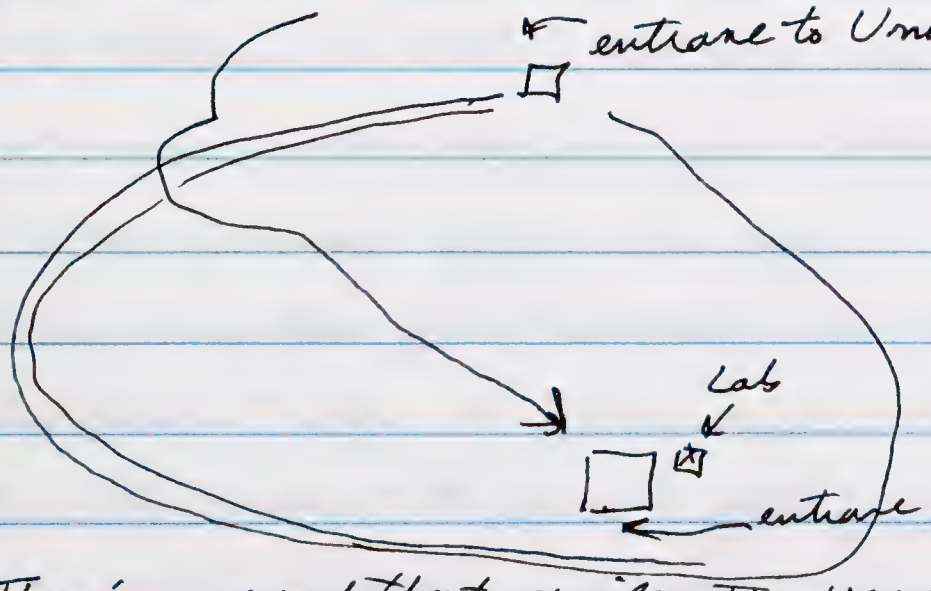
15 July (Thursday)

0745 hrs Arose and showered

0830 hrs Ate breakfast. Our plan is as follows: We need to contact Pedro Leon to find out for sure if we can work in his lab, store some equipment there, and find out about rental cars, snake antiveneum.

0930 hrs Called Pedros lab. and talked to Tony Moreno. We will take a taxi over there in ca. ½ hour

1020 hrs Arrived at Pedro's lab. It is located behind the Facilidad de Medicine.



There is a road that circles the various buildings on campus. The Facilidad ~~~ is located roughly opposite the entrance to the Univ. If you enter the main doorway, Pedro's lab is located next to the electronic microscope in a

separate building. entitled "Centro de Investigación en Biología Celular y Molecular. lab phone # is 24-67-49. (Dr. Pedro León Azofeifa 11:30 hrs We have met with Pedro and Tony. He will allow is use of the lab for karyotyping and storing extra equipment. We may also use one of two microscopes for scanning. Tony gave us the address of the place that sells antivenon. It is called "Instituto Clodomiro Picado." located in the town of Coronado outside of San José. It is part of the Univ. of San José 12:05 I don't have directions to the above place because the taxi ride was so circuitous. However, the cab driver stopped to ask directions several times and was guided accordingly. The building are set back off the road ca. 50 m and are blue and white. We purchase antivenon for one person (anti Viperid only) for $420.00 colones.

12:45 Returned to Hotel. We will try to buy some adrenalin and various other supplies and obtain a vehicle, then go to the permit office once again.

1400 hrs we have spent several hours trying to rent a "Land Rover" Seize 4-wheel drive vehicle (it is larger than the normal Toyota size jeep) with no luck. Global Rent-A-Car may have a VW bus for $200 dollars per week, unlimited mileage. We are now at the permit office. The permits are approved, and are ready to be typed. We talked with Dr Edwards

15 July

Lopez who made us understand that he expected one preserved individual of each species we collected for a collection in San José (Univ. Costa Rica) He asked that we return in one hour

1605 hrs after exchanging some money (rate is now 62 colones to the $) and stopping for a coke we returned to the permit office.

1635 hrs. left office w/ an approved permit for each of us.

1655 hrs Arrived back at the hotel. Global Rent-A-Car will call us about the vehicle.

1720 hr I asked the desk clerk to call Global. The have a VW bus for us. ~~I~~ I made arrangements to pick it up tomorrow at 10:00 or 11:00. Hopefully we will be able to leave early in the afternoon for the first collecting locality. Tomorrow we have to purchase food, ice, try to get a latern globe, machetter, distilled water, 70% ethanol.

16 July (Friday)

0730 hrs Arose and showered.

0815 hrs left for Mercado Central (location Avenida Central - Ave 1 and Calle 6 - Calle 8). We want to purchase machetes

0930 hrs Returned to hotel with machetes, water container. Ed went across the street to buy food for ca. three days. Phil is trying to exchange traveler's checks for colones and plans to pay the hotel tab. We will leave for Global when he gets back to the room.

Duke S Rogers
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Journal (8)

1030 hrs Arrived back at hotel and parked nearby. We spent about thirty minutes getting the equipment organized before setting out to find a Coleman lantern globe which had broken during transit

11:15 hrs No luck looking for a lantern globe. We will go out collecting without a lantern this time, then possibly purchase a propane lantern when we return to San José

11:50 hrs I telephoned Pedro Leon to let him know that we would be coming by to drop off a trunk and a cardboard barrel. First we ate lunch (½ a fried chicken for $4.30!)

1235 hrs We dropped off the equipment at Pedro's lab and have ~~returned to the hotel~~ began our drive to the El Copey de Dota locality.

1800 hrs Our route of travel was the Carretera Inter-Americana (Route 2) via Cartago (we got lost for a while, through Tejar and past Trinidad de Dota. (only Trinidad on the map). This is approx. km marker 60. (I get it exact later). When we realized that we must have past the turnoff for El Copey de Dota (Copey on the map – it is before Trinidad) we turned around and went back to Trinidad where we took a mileage reading. The locality where traps were set is: 2.2 km E (by rd.) Trinidad, 2600 m., Prov. 1 San José, Costa Rica

The south side of the road is covered with a cloud forest of hardwoods, ferns, bamboo looking plants, ect. Much bromeliad infestation. There are many fallen logs. And the forest is fairly well thinned out

Duke & Rogers
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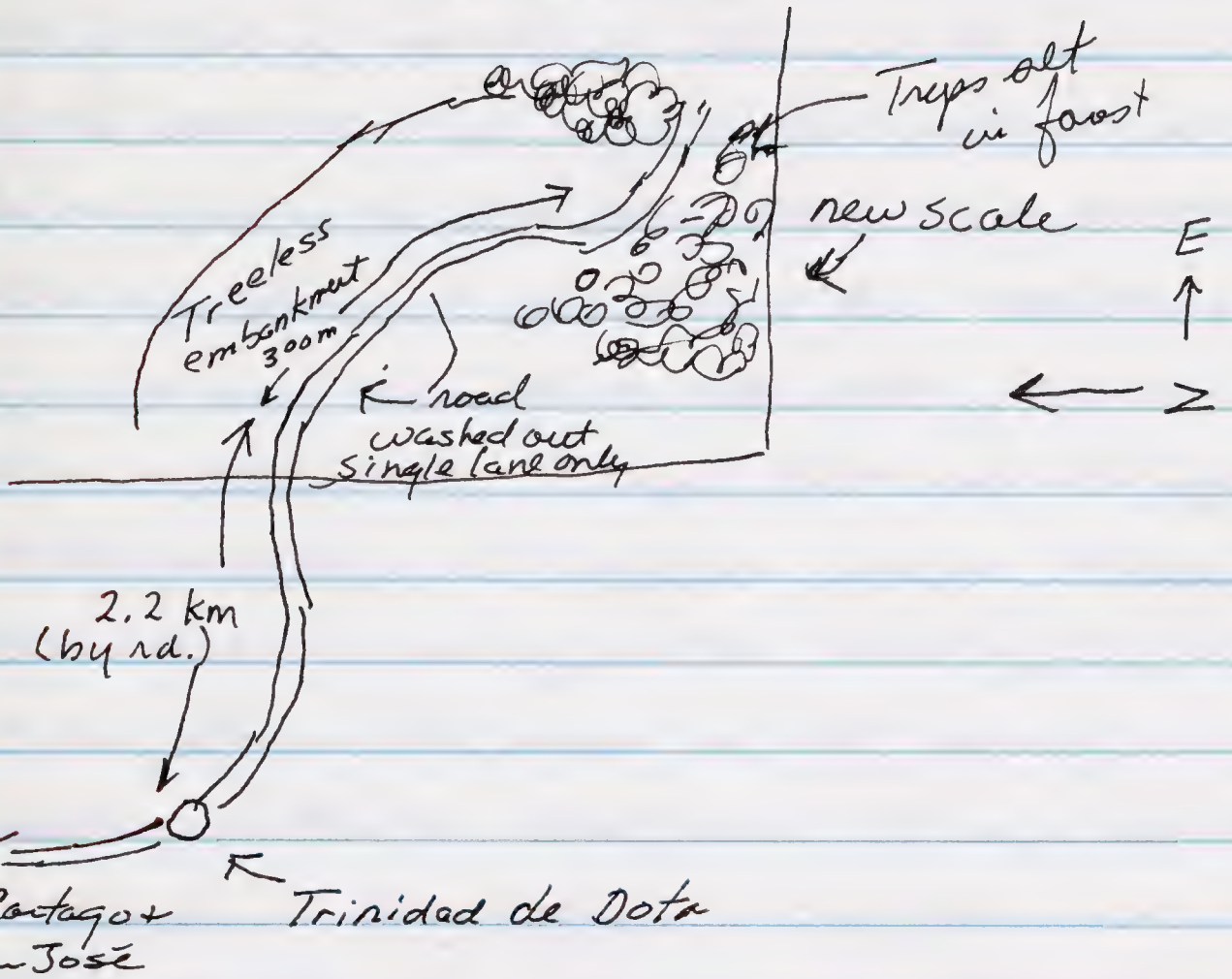
(9)

Journal



I have set out 90 Shermans (all in the forest except for 20 which were placed in secondary growth just above the highway on the south side. This locality appears to be only 6 or 8 airline kilometers from El Copey de Dota. alt. 2600 m (higher than Copey) but it is about the best habitat that I have seen so I really hope we score on the H orestera in the morning. Fog is blowing in, and it is misting heavily. 2000 hrs We have driven another 12.2 km to the SE toward Cerro de la Muerte to camp. We pulled off in an open area to the left when heading southeast. The locality where we are trapping is along a stretch of the Highway where to one side (NE usually) is Cartago Prov. and to the SW is San José Prov. All our traps were on the San José Prov. side. Foggy, slight wind, temp. ca. 10° C.

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Journal

17 July (Saturday) (10)

0630 hrs Woke up and dressed. We spent the night cramped in the ~~car~~ VW. Phil left to sleep outside as he was too cramped in the front seat. Cloudy, temp. ca. 10°C.

0930 hrs. Ed and I have returned from collecting and have repacked some animals in other holding thermans to keep complete sets. I caught 16 animals (2 Scotinomys, 7 Reithrodontomys, 6 P. mudipes, and one Heteromys).

1130 hrs Phil has some difficulties locating all his traps. He has returned but several are still missing even after searching for them for several hours. Ed caught six mice (1 ~~Oryzomys~~, 2 Reithrodontomys, 2 P. mudipes, and a mustelid. Phil caught five mice (2 Oryzomys, 1 Reithrodontomys, and 2 P. mudipes). We plan to spent the next several hours preparing a series of mudipes. Partly cloudy, temp. 15°C, windy

1500 hrs Completed pulling tissue and preparing a series of P. mudipes. Our plan is to set traps at the same locality again tonight, then move on regardless of whether or not we have taken any more Heteromys. I want to be damn sure I get the one individual we have karyotyped. We can always come back here and try to get some more at the end of the trip. We will probably work the locality given to us by Mark Hafner near Tres Rios for Heteromys for a few days, then head on in to San José to karyotype.

1700 hrs. Completed setting more traps in likely looking Heteromys habitat. Phil is back, we are waiting for Ed, then we will head down the road a way to get some warm coffee. It is and has been raining for the past 3 hours.

Duke S Rogers
1982

Journal (11)

18 July (Sunday)

0630 hrs We ended up camping at the same place as last night (12.2 kms) up the road from our trapping site. The weather last night was very foggy, but cleared at the higher elevation of our campsite (ca 3,000 meters) Several animals died last night and we will take tissue on them before leaving for our trapping locality.

0845 hrs I completed picking up the traps for my line (ca 60 set in the forest and 30 set along the forest edge or in secondary growth.) I caught 10 animals (3 Scotinomys, 2 Reithrodontomys, and 5 Oryzomys (several species). Ed collected 1 Heteromys, 3 Reithrodontomys (creper?), 2 P. mexicanus, and one Oryzomys. Phil caught 3 Heteromys oresterus, 1 Reithro (creper) and 1 P. mexicanus.

1000 hrs Several of the Heteromys are doing poorly so we will stay here and prepare several more animals that are doing poorly while I karyotype the two oresterus. The weather was sunny, but now has begun to rain.

1200 hrs Completed karyotyping the animals. The hand centrifuge is begin to strip the gears after only 2 animals! It probably will not be useful for the remainder of the trip. We will drive until we find a restaurant and stop to eat. We will then drive to near Tres Rios and try to find good habitat for Heteromys desmarestianus.

1340 hrs We have finished eating and are about 20 kms outside San José.

1630 hrs After driving on back roads south of Tres Rios

Duke S Rogers
1982

Journal (12)

for several hours we have stopped to set traps on a farm owned by a very nice man who speaks good english. His name is Oscar Mora .

2100 hrs. We have set traps on a hillside overlooking San Jose and Tres Rios. The habitat is fairly disturbed, Trees are about 10 m - 15 m in height. There is a lot of coffee planted, rather thick understory in some areas, but little in others. Leaf litter is ca. 1 cm in depth. We have been given coffee and a place to sleep in a spare bedroom. Oscar and his wife are very nice and charming people. I don't hold out too much hope for collecting any Heteromys tomorrow. Regardless, I plan to drive into San José and make arrangements to karyotype on Tuesday. We already have caught ca. 18 animals that I want to karyotype, and probably more in the morning. I have 70 traps out.

19 July (Monday)

0615 hrs Arose, dressed and left to check traps

0750 hrs Returned from picking up traps, having only caught 2 animals (Scotinomys and O. alfaroi ?). The Oryzomys was taken in growth along a stream, whereas the Scotinomys was taken in thorny undergrowth on a hillside

1100 hrs Spent the morning taking tissue on an Oryzomys that died during the night. Ed and Phil collected 5 more Scotinomys (2 and 3 each); Preparing a series of six Scotinomys (2 ales, 2 skel only + 2 + body skel. — the latter 4 tissue was pulled on as well. We also have arranged our gear and are ready

Duke & Pozen
1982

Journal

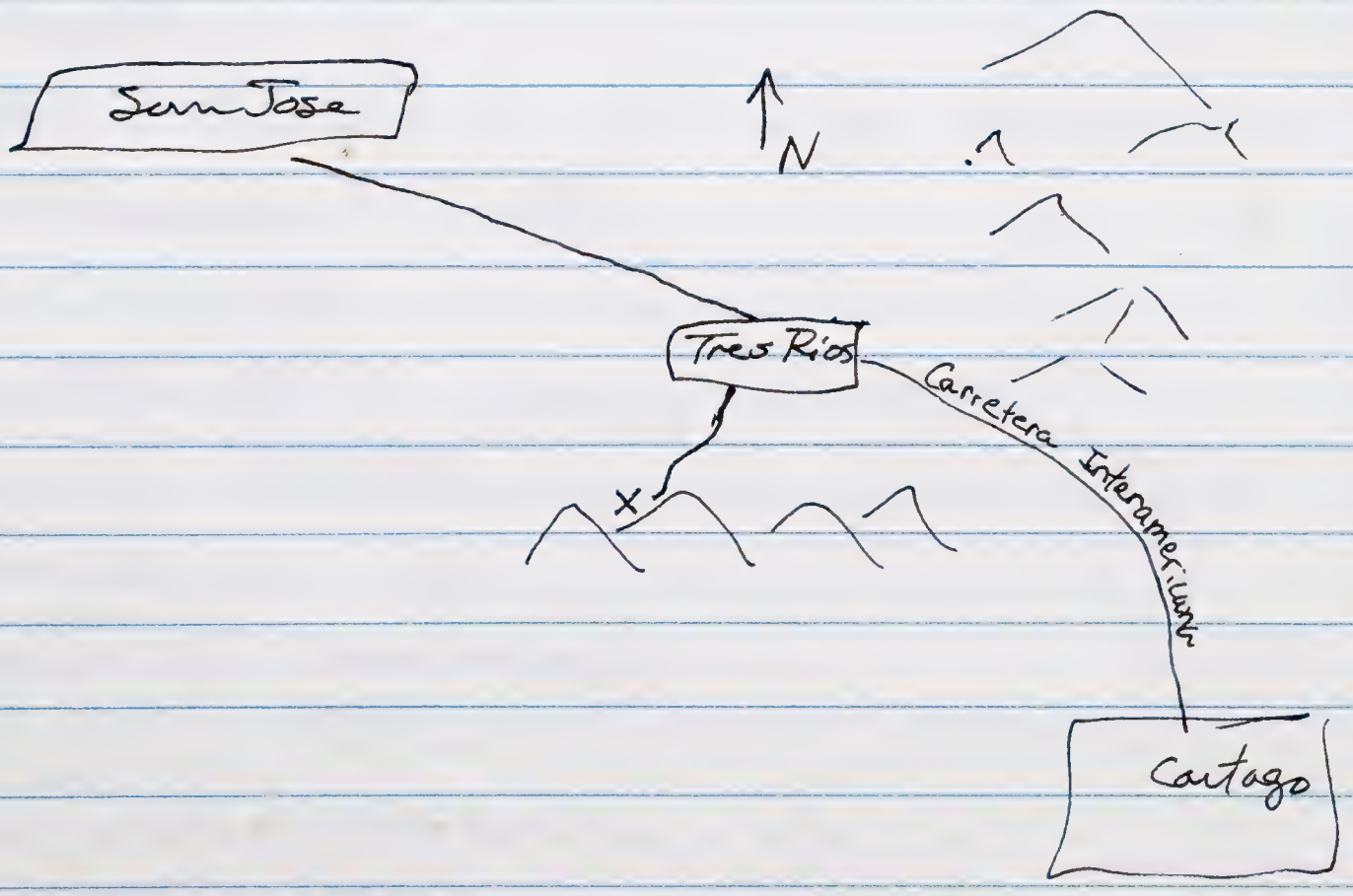
19 July (cont.) (13)

to drive into San José and rent a hotel room. I plan to call either Pedro Leon or Tony Moreno to set up a time when I will be able to karyotype (hopefully tomorrow). Senior Mora borrowed a trap to try to help us catch mice here. We will call him when we next get into town. His address is: I asked him if there was anything he wanted from the States and he requested a book on raising rabbits. I will send him one when we return to California.

Señior Oscar Mora
Calle 5 Ave. 22/24
Fabrica CONOS - TICOS
San José, COSTA RICA
Telephone: 26-14-71

The weather this morning was overcast, temp. ca. 18° C. It is now still cloudy, but some sun is beaming through, slight breeze, temp. ca 21° C.

~~The Monteverde Cloud Forest Reserve is~~ La Carpintera, 96 km S of Tres Rios, 1400 m, Prov. San José, Costa Rica



Duke 17 July

20 traps – secondary growth near road

2 Scotinomys
2 Reithr sp C
2 Reithr creper
2 P. nudipes

40 traps – mature forest

1 Hoxtews
2 R. sp. A
1 R. sp. B
2 P. nudipes

30 Traps mature forest

2 P. nudipes

Ecl (6 Total

1 Reithr sp C
1 Reithr sp A creper?
2 P. Nudipes
1 Oryzomys sp. A (small)
1 Mustelid

Phil

2 Oryzomys sp B (large)
2 P. nudipes
1 Reithr sp. "C"

---

18 July

Duke
Scotinomys III
Reithr creper?
Oryzomys sp. C 1 = large cowsi size
Oryzomys sp D 1 = small
Reithr sp. C 1
Oryzomys sp A 11 = alfori type
Oryzomys sp B 1 = large

1

1 K-type
Scotinomys
Reithr - 6-8
P. nudipes 4
1 H. orestes
2 Oryzomys
1 Mustelid

19 July

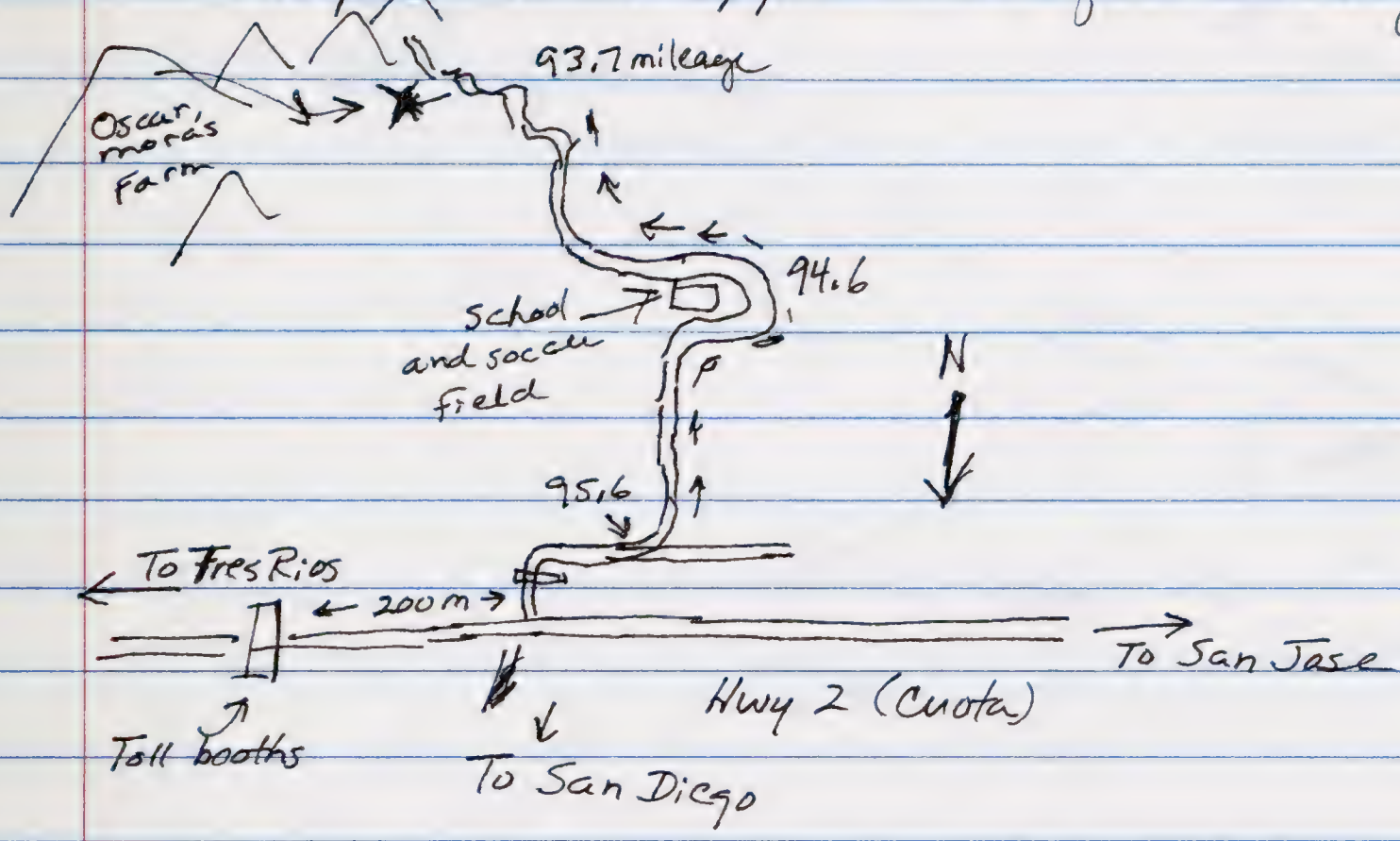
Debbie	Ed	Phil
1 oxygooms	2 scotinogs	3 scotinogs
1 scotinogs		

Duke S Rogers
1982

Journal

1730 hrs. About 1200 hrs we said goodbye to Señor Mora. The locality for this morning's trapping is the following: Cerros de la Carpintera, 2 Km S (by rd.) San Diego, 1450 m., Prov. San José, Costa Rica.

The map below is an approximation of the locality

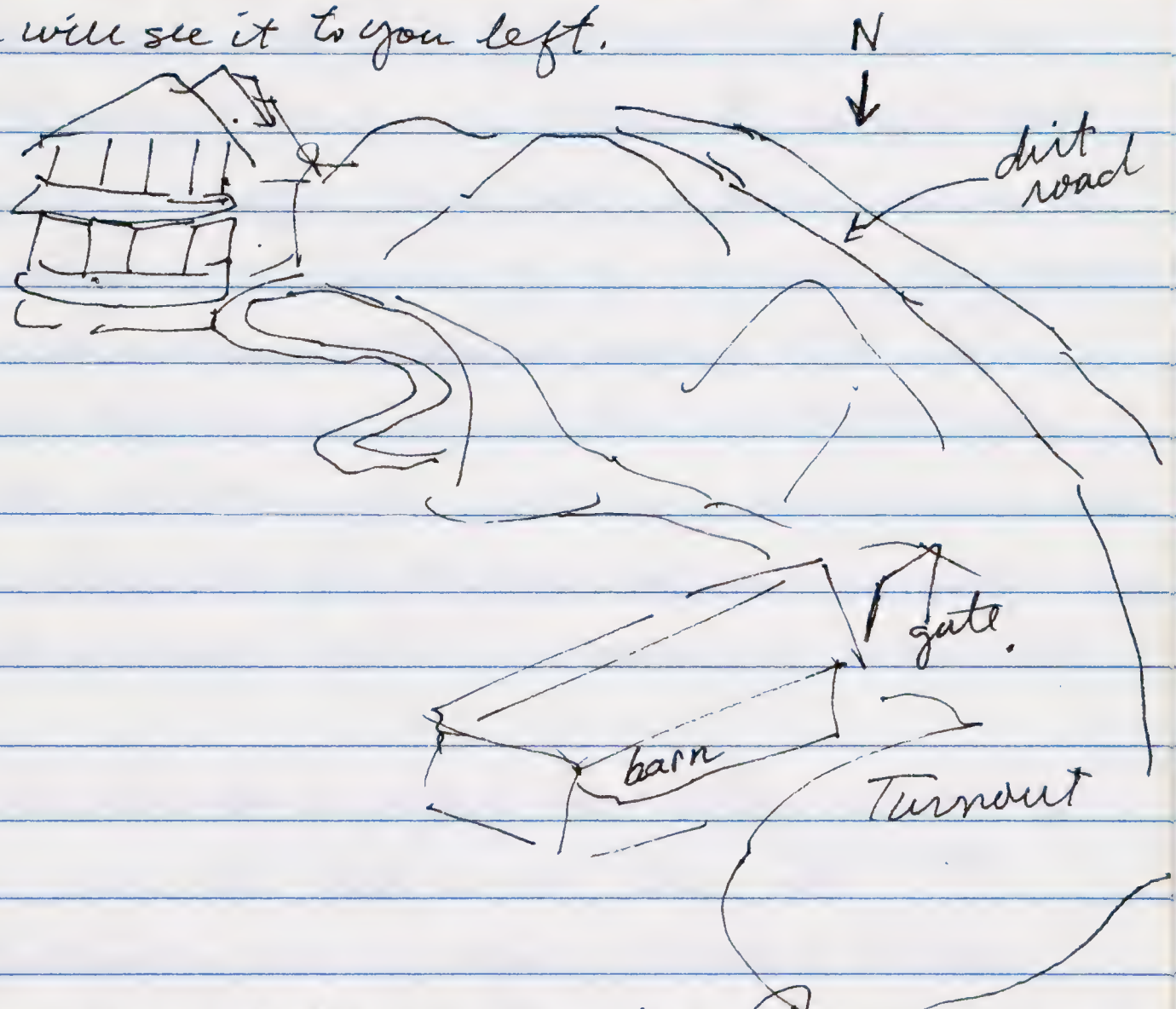


Directions are as follows: Turn directly off toll road ca. 200-300 m before booths or take a exit ca 1 km further toward San José. Follow a dirt road heading toward the hills (there are side roads, but stay on main one). Immediately after you turn on to the dirt road you will cross a stream. After one km the road will swing back east and there will be a soccer field and school on the left. The road will curve to the right and begin to wind up hill, continue for 0.5 kms until there is a gravel turnout to the left. If you go too far there is a gate (at least now) beyond which there are

Duke S. Rogers
1982

Journal

people working on a tunnel to bring water across the hills. Oscar Moia's house is unusual - can't miss it you will see it to you left.



2100 hrs We went through the animals I and / made decisions regarding which animals to save for karyotyping I have contacted Pedro León and arranged for a place & karyotype in the morning. We will process 19 animals tomorrow and preserve eight this evening.

20 July (Tuesday)

0640 hrs Arose, dressed and left to eat breakfast.
0835 hrs After eating and loading necessary equipment in the car we are ready to drive to the University.
1230 hrs Stopped for a break to eat. We have run eight animals. Our work space is very adequate and everyone

Duke S Rogers
1982

is very helpful and friendly.
1500 hrs Stopped for coffee with the staff and talked with the director. He will find out if we will be able to trap a 2 hectare area behind the campus that was formerly a coffee finca but has been allowed to undergo natural succession for ca. 18 years. Tonny Moreno gave me the name and telephone number (Dr. Pedro Morerera, Hospital San Juan de Dios 23-41-49) who works with rodent parasites and may be of considerable help with localities for Heteromys and may need or appreciate preserved intestines and muscle for his parasite work.
1830 hrs Completed the karyotyping. Phil stuffed most of the animals while Ed took the et. tissue, spleen, etc.
2100 hr Tomorrow we will try again to contact Dr. Pedro Morerera to get localities. Failing that, we will drive to Guanacaste Province to collect Heteromys.

21 July (Wednesday)

0700 hrs Arose, showered, dressed for breakfast
0810 hrs Returned to hotel after buying post cards
0930 hrs Checked out of hotel — Discovered that the tape deck, speakers & passenger side mirror had been stolen! I hope we are covered by the insurance — but I doubt it. We are going by the Univ. & Pedro's lab to pick up some equipment, I will ask them about it before going to the Global Rent-A-Car agency (ave 9 & calle 15). I also called Dr

Duke S. Rogers
1982

Moreira. He couldn't give me any help with Heteromys localities but asked for some fresh (either live or preserved in liquid N2) viscera from rodents (especially Sigmodon). They have found a parasite that is ~~that~~ compatible with humans in rodent tissues and he wants to conduct a survey of many species to determine which species carries the organism. He also wants live animals to study disease transmission. I told him that we were leaving for Guanacaste Province today and would try to collect some data for him.

1130 hr Hassled with the car rental agency. Of course, they claim that the stereo, speakers, and music are not covered by insurance. (he wanted $35, $32 + $15 respectively = $82). I told him we would pay it and asked for rental on the VW bus for an additional week (ends 30 July), and to put the $82 on the bill. We will hassle with the agency later with help of Tony Moreno who offered to do so.

1220 hrs We are finally ready to leave San José after purchasing supplies, buying gas, etc. We tried to report the theft (it occured on calle 13 just below our window) to the police (calle 8 and ave 19 on the corner) but they were closed from 12:00-13:00 and we really needed to head out to set traps for Heteromys. We will go back during our next stop in San José.

1630 hrs. Arrived at a place to set traps. Our route of travel was the toll road out of San José, taking all

Duke S. Rogers
1982

choices at signs or intersections for Fesiot Heredia when in San José, then for Alajuela until the Cuerupuerto El Coco, then for sings for the Frontera Nicaragua. Past Alajuela the road becomes "1". We continued on this road until reaching the town of Las Cañas, then took route 19 towards Tilarán, stopping at three places to trap (see next day's notes for mileages or later entry. The weather is warm, partly cloudy, we can see Volcán Arenal from the trapping sites.

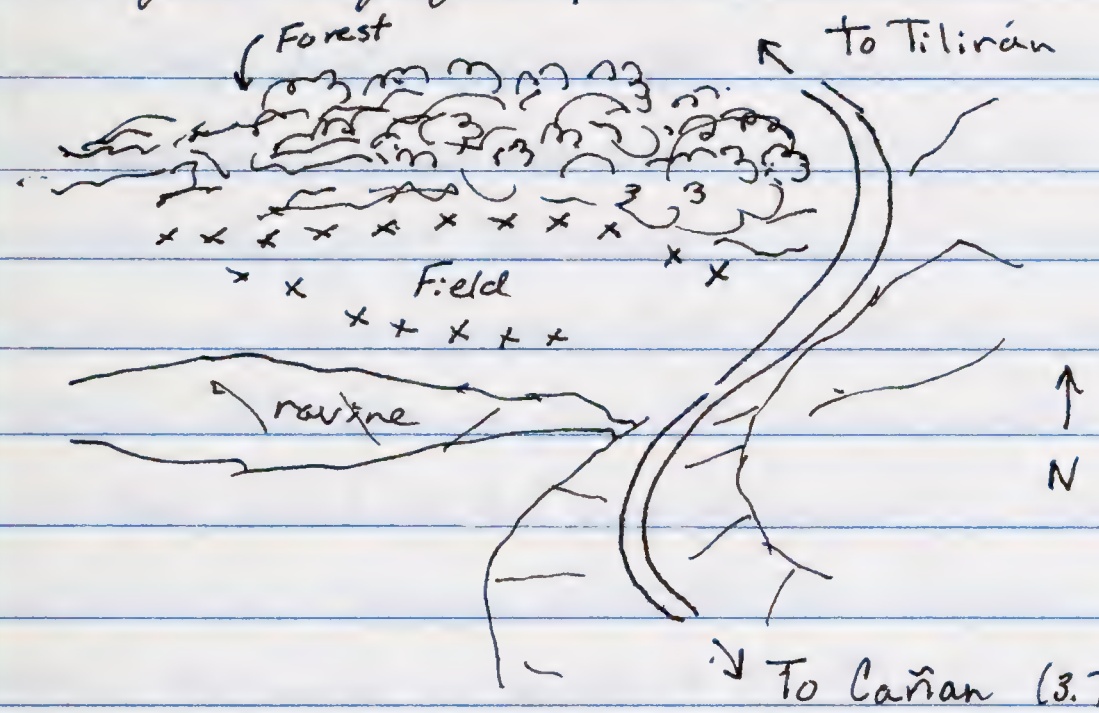
1820 hrs Completed setting 60 traps — most of them are along an edge of the forest, ca 25 are in secondary growth in a pasture or in grass. The locality where Phil and I set our traps is 3.7 km NNE (by rd.) Cañan, 0150 m, Prov. Guanacaste, Costa Rica. Ed's locality is 8 km NNE (by rd.) Cañan, 300 m, Prov. Guanacaste, Costa Rica. Phil set a total of 70 traps and Ed has set 60.

1830 hrs Drove into Cañan to eat supper.

1950 hrs Drove back out towards our trap sites and plan to camp between the two along a road which used to lead to an old bridge crossing an unnamed river (ca 6 km NNE Cañan), but now there's a new taller bridge. This afternoon when setting traps I saw a *Potos flavus*! Very beautiful animal. Phil says and we both heard howler monkeys as well. The 3.7 km locality description is as follows: The forest is not very dense, and there is only a patch of it on the left-hand side of the road when driving from Cañan toward Tilarán. I set my traps along the

Duke S Rozen
1982

edge of the forest and then moved away from the forest out into a field with forbes & herbaceous clumps and some grass (grazed by cattle).



X's mark the path of 40 traps set. The forest (south end) comes up a incline of about 40°. and goes east to west (from road inward) on an incline as well. The forest floor is covered with some leaf litter (ca 5-10 mm). The edge has more cover, with more brush and some grasses. I hope to catch Heteromys here, but also some Oryzomys and Sigmodon.

2200 hrs Completed stuffing and pinning the remaining animals karyotyped in San José the day before. Weather is comfortable now ca. 28 28°C, with a wind and slight breeze. I plan to sleep in the bus, very few insects.

22 July (Thursday)

0635 hrs Woke up after a moderately good night's sleep (for in the bus). Weather is breezy, partly cloudy ca 25°C.

0700 hrs left our campsite and drove to drop Ed off, then turned around and drove to where Phil and I have traps set.

Duke S. Rogers
1982

Journal (20)

0750 hrs. Returned from pulling in all my traps with a total of 7 hicmys from 60 traps. I did not catch anything in the 20 traps set in grass!; only one hicmys salvini along the forest edge, but caught another 6 animals out of 10 traps placed in bunches of forbes and brush in the field. Phil returned from checking his first line with 7 hicmys as well (from the forest). He should do as good or better in the other line for hicmys.
825 hrs: Phil returned from the second with no animals.
We have picked up Ed and he caught 3 hicmys. So we have a total of 17 hicmys from the two locals.
905 hr Continued on route 19 to Tilirán. I have a locality for Heteromys listed as 5 ~~0~~ km N, 2 Km E - so I assume the locality was on a road heading NE out of the town toward Arenal.
955 hr Stopped for breakfast at Cafe Nixon.
1030 hr Purchased a fairly nice pair of boots made in Nicaragua for #1,100 colones = ca $18.50 - couldn't pass them up.
12:50 hr We drove out of town and have found two likely places to set traps. One is a narrow strip of fairly large trees and mesic vegetation ca 3.5 Km out of town. The next is a patch both above and below the road overlooking Lago Arenal. Note: ca 0.1 km before the lake is sited take the right road fork
1320 hr Stopped outside of town to process the hicmys. Phil put up several alcoholics and we also took tissue on a series (2 skel. only & 4 skins).
1530 hr Drove out to trapping areas. We will take

Duke S. Rogers
1982

Journal (21)

mileage readings on the way back.
1810 hrs Arrived back in Tilirán. We have rented a room for three people for ₡ 91.00! This has to be the cheapest ever. The room is very small, with 4 beds & the bathroom is down the hall but its clean and the car is pulled in the hotel parking area. We have brought up our personal gear, liquid N_2 tanks but have left the collecting equipment in the VW Bus.
2030 hrs Returned to hotel after eating. We may here another night if we catch Heterorrys in the morning. I hope we do!

23 July (Friday)

0645 hrs Woke up after a comparatively sound night's sleep at 0500 hrs to someone banging on a door down the hall.
0710 hrs We all dressed and prepared to leave for first trapping locality.
0750 hrs I collected 2 Heterorrys (young adult ♀♀) out of my 40 traps! These are very good catches. Probably the only samples I will obtain from the northwestern area of the country!
Ed returned and had caught 1 Heterorrys. Phil came back with 6 Heterorrys and 1 O. alfaroi! Based on this success we will stay here another night and try to get a big series of Heterorrys from this area.
0845 hrs Returned from checking forty traps with nothing. 30 of these were set in a patch of forest that was secondary growth ca. 15-20 years except for a few big trees. 10 traps set

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1982

in tall grass on the roadside also yielded nothing. Ed has his traps placed in the woods close to mine, so he should do poorly as well. Phil will probably have better success- his traps are placed below the road toward the lake (Laguna de Arenal) and from here the vegetation looks more mature. Phil did very well- a total of 10 Heteromys! (6 at the first local & 4 at the next. Ed caught 6 Heteromys and I caught only 2 total.

1200 hrs after checking out of the hotel we have driven well out of town and stopped to process some of the Heteromys - we made several alcoholics and skeletons only.

1430 hrs We are in Liberia (or its outskirts). We have decided to drive to Playa del Coco inasmuch as there is a hispidus locality taken from there.

1530 hrs Arrived at Playa del Coco and have checked out a room for tonight. We will set traps out of town several kilometers tonight.

1600 hrs During the hot ride 6 Heteromys died. We will have to take tissues on them now!

1830 hrs Returned from setting traps. I have 70 out, Phil has 80 and Ed 60. Typical hispidus habitat- Acacias, some herbaceous understory, little leaf litter, some trees ca. 10 m maximum. There are many wasps I was stung three times on two different occasions.

0130 hrs Returned to hotel room. We met an interesting person who owns a large Hacienda near the Nicaraguan border (7 Km S). He is in the neighborhood for the festival of

Duke & Rogers
1982

independence from Nicaragua (Guanacaste Prov.) to be held tomorrow. He is German and a man who works for him says he was a Luftwaffe Pilot in WW II. He is very interesting to talk to (politics, Costa Rica).

24 July (Saturday)

0655 hrs Arose, dressed and left Hotel room for breakfast
0810 hrs Arrived at trapping-locality. It is 3.9 Km SE (by rd.) Playa del Coco, 100 m, Prov. Guanacaste, Costa Rica.
0950 hrs Completed picking up my 70 traps (one apparently was taken by someone). I caught 9 hiomys salvini. Ed caught 8 and Phil 6.
1130 hrs. Another Heteromys had died during the night. We will have to be much more careful about transporting the animals to prevent more losses. In addition, we will now have to go back to the Tilarán locality for one more night to collect more. We talked more with the German. His name is Heinz Flug. He offered to put us up at his Hacienda given 4 days notice for some good horseback riding. We plan to stay here for another night and set bat nets.

25 July (Sunday)

0900 hrs Yesterday afternoon we drove into Liberia to see their independence festival. It was quite a bit like a county fair in the states (more emphasis on livestock here). There was a dance where we met some friends of Leonard's (who works for Heinz Fluge) and later we went to another place to dance and ended up celebrating the independence until 4:00 AM.

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1982

Journal (24)

Later this morning we plan to drive to Tilarán and try to catch additional Heteromys. We still have six remaining alive, but we need more if possible.

1230 hrs Completed checking out of hotel.

1440 hrs Arrived at trapsight (4.1 km NE (by rd.) Tilarán, 650 m) I set 80 traps in the same area (to the left when driving NE) and Ed and Phil set out 30 and 40 traps respectively.

1535 hrs Drove back into Tilarán, then about 0.4 km out of town to set some traps in a brushy, secondary growth area. We hope to catch either Oryzomys or Sigmodon here.

1830 hrs Arrived back at our hotel (#180) - very nice.

2300 hrs Turned in after a few cervesas.

26 July (Monday)

0655 hrs Arose, dressed, and quickly left for trap sites

0850 hrs. I caught nothing at the (0.4 km N Tilarán local), nor did Phil, but Ed did catch a Liomys with means another locality. It has been raining intermittantly (but very hard) all night and the traps set in the secondary growth were exposed and probably the rodent activity here was diminished. Of the 80 traps I set in the forest at the 4.1 mi NE Tilarán local I caught 5 Heteromys and one Oryzomys fulvescens. Ed caught 4 Heteromys and Phil 1.

1030 hrs Drove to Cañas and stopped for breakfast. We plan to drive to San José today, stop off to see if it is OK to Karyotype tomorrow, then either set traps near the University or drive somewhere nearby and trap for Liomys

Duke S Rogers
1982

Journal (25)

1355 hrs Arrived San José.

1430 hrs Stopped in at the lab. It will be ok to karyotype.

1630 hrs. We have rented a hotel room (Hotel Cocorí) for ca ₡400/night. (only a third of the Galilea price). We were unable to obtain permission to trap in an old growth area (old finca) near the laboratory, so we plan to drive west of town on Highway 7 near Escazu to trap for hiomys

2120 hr Completed set out a line of traps each at a locality 4.6 Km W (by rd.) Escazu. The area consists of tall grasses on the roadside, with secondary trees and herbaceous-woody understory with coffee plants off the road. It appears to be good for hiomys. After trapping we drove the car to the Global Rental Place and parked it there for safekeeping. The rear door of the VW bus will not close so it is definitely unsafe to leave on the street.

27 July (Tuesday)

0650 hrs Arose dressed and left for Global via taxi with Ed.

0730 hrs Arrived back at hotel with the VW bus. We await drive out to the collecting local.

0830 hr. Only one animal was collected (by Phil) a Sigmodon hispidus out of his 30 traps, Ed's 30 and my 30.

Duke E Rogers
1981

Journal (26)

0920 hrs Arrived at Pedro's laboratories and will begin to set up for karyotyping.
1115 hrs. Broke for lunch after karyotyping 5 animals.
1420 hrs Arrived back at the lab.
1750 hrs. Completed processing another four animals We will stay another two nights. Ed and Phil off to set out traps at 1600 hrs. When I am finished here I will take a taxi back to the hotel.
1835 hrs arrived at hotel cocori. We will begin maintaining live animals in holding jars. Phil and I each have 4 Heteromys and several Isothrix.

28 July (Wednesday)

0630 hrs Arose, dressed and gathered supplies to process animals
0720 hrs left hotel. Ed and Phil left a few minutes earlier to check their traps. I will leave to eat breakfast and then go to the Univ. via a taxi
0810 hrs Arrived at the lab.
0940 hrs Ed and Phil returned - but with no success at all - no mice. I have karyotyped several animals and plan to do another three this morning.
1600 hrs Completed karyotyping animals. We will be meeting some people from the OTS course tonight for supper, then hit some of the local hot spots for some relaxing.

29 July (Thursday)

0745 hrs Arose, dressed and went out for coffee.
0830 hrs Phil stayed back at the hotel while Ed and I took

Journal (27)

a[illegible] the rental vehicle over to Global to see if they could fix the back door.

1030 hrs Arrived back at Global after going over to the Univ. via taxi to look at some of my chromosomal preparations under the microscope. The preparations seem to be working rather well. The global people are still gone with the car, but they said that they would have it ready by 12:00.

1045 hrs The car is back - fixed.

1220 hrs We have spent the last several hours driving back across town to the hotel, loading the vehicle, checking out, then driving back across town to the University to pick up the liquid nitrogen tank and some other equipment we will need for field work. We have also stopped to quickly eat lunch. We plan to drive to near Turrialba and look for mature habitat southeast of the town.

1620 hrs. After a wrong turn and an hour's delay we have reach Turrialba and driven quite a way's past it. There was no decent mature habitat near Turrialba so we drove out of town ca. 10 km and took a turn onto Route 232 from Route 10. We followed this road for about 20 kms - going through the towns of Estabón, La Suiza and turning around at Tuis. There was nothing approach mature rainforest remaining. We have since driven back towards Turrialba, stopping right before the turnoff toward Moravia (Rout 232) to set traps along the banks of the Rio Reventazón. The habitat is very

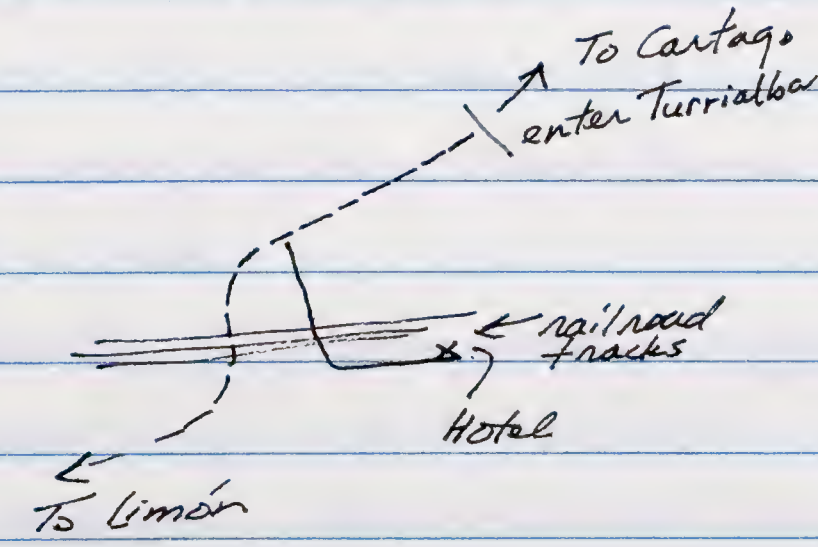
Duke S Rogers
1982

disturbed, but it is the best I have seen and we have to get traps out of some sort. I don't hold out too much hope for collecting any Heteromys here - or much else for that matter. 40 of my traps are in the most "mature" area along the southwestern bank of the river above a small washed out partially paved road. Another 30 are set in and along some secondary growth on the roadside to the northwest of the river. Ed and Phil each set a box of traps in the "forest" and then took out another box each in the same area (Phil) and along the southeast bank (Ed).

1800 hrs We have all returned from setting out our traps and now plan to drive back into town to eat.

30 July (Friday)

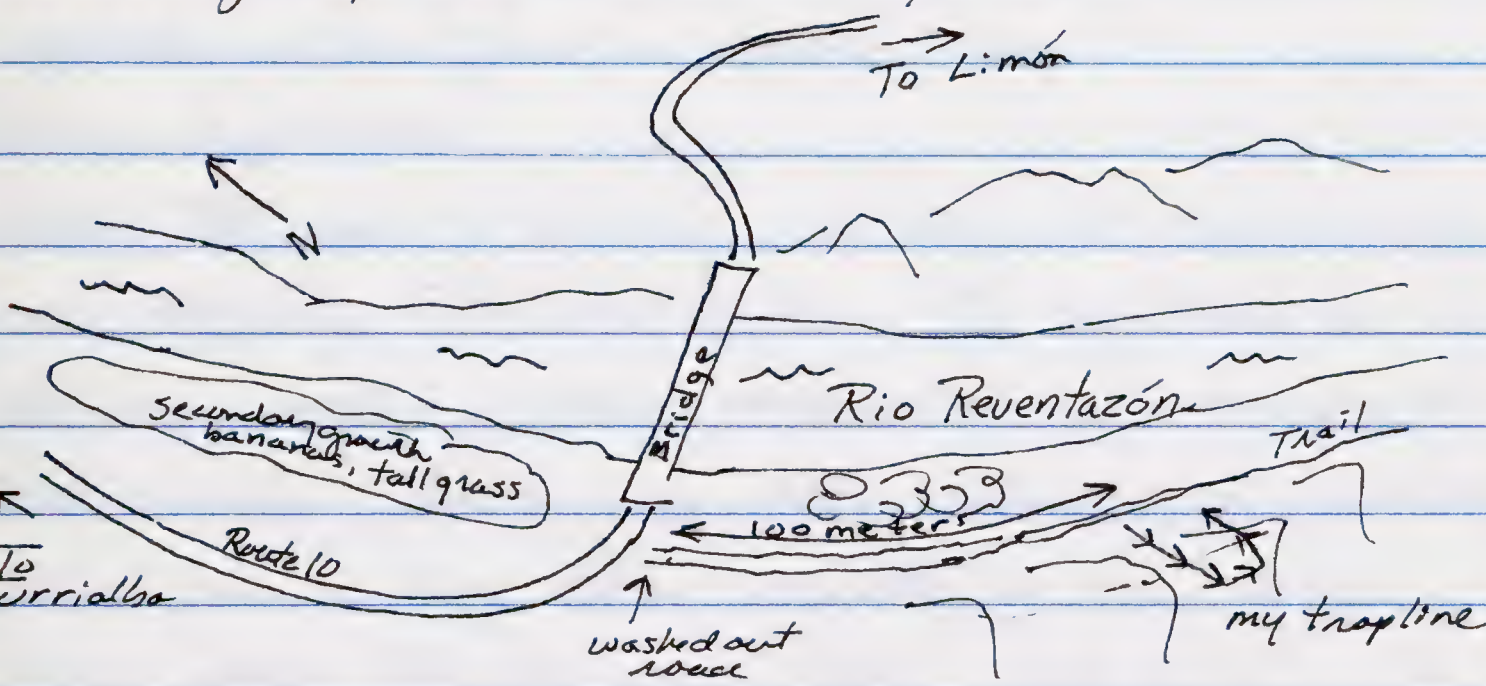
0715 hrs Checked out of our "hotel" which we had considerable trouble even finding last night apparently everyone (almost) either stays in Cartago or goes all the way to Limón. The room was ₡150 for the three of us, bathrooms were next door in the hallway. The name was Hotel Interamericano. Tele. 50-01-42.



Duke & Roger
1982

Journal

0900 hrs Completed picking up my traps. Collected one Heteromys from 40 traps set in the forest and one Oryzomys (large=devius?) from 30 set in secondary growth. Unfortunately, another mouse escaped when I tried to look at it (Oryzomine: ca 270 total, long tail, very dark above). Ed caught another Heteromys on his line, but nothing from a series of traps set in secondary brush



Our locality for trapping (see yesterday's description) in Rio Reventazón
↑ 5.6 Km (by rd.) SE Turrialba, 450m, Prov. Cartago, Costa Rica

The only place to trap for Heteromys (most undisturbed) was in or along the banks on the Turrialba side of the river to the south. There was a narrow patch of decent vegetation above a washed out paved road (narrow) that eventually turns into a trail.

1045 hrs Arrived town of Siquerres and ate breakfast

1205 hrs Arrived Limón. The habitat between Turrialba and Limón has been considerably altered - we did not see any mature rainforest remaining. There are areas where there are big trees - but there usually or always is an understory of

Duke S Rogers
1982

cultivated crops. We decided to drive out of town.
1350 hr. We have checked into the hotel Internacional, mainly to keep the live animals we are Barrying from overheating. The road to the south out of himán was unpaved and looked unproductive (at least within several hours) so we turned around. We plan to drive a short way (with 10-20 km) out of himán and trap in the best vegetation we can find in several hours
1530 hr left hotel
1800 hr Returned to himán. We have set traps in an area roughly 5 km out of town. The vegetation is secondary, with a moderate amount of large buttressed trees remain. There is a one meter understory of broadleaf plants, and a leaf litter consisting of very large leaves about one-half inch thick. Intermixed in the mature vegetation are areas that have been largely cut and support a mass of tangled vines with some bananas. We have set up two bat nets and will return after dark to set them out.
1920 hr Arrived back at trapping and netting locality to spread out the nets
2100 hr Preparing to leave locality. Collected eight bats (Artibeus lenchophylla ? and another species unknown to me at this time)
2300 hr Turned in after celebrating my birthday with some drinks at a bar across the street from our hotel.

Duke S Rogers
1982

Journal (31)

31 July (Saturday)

0630 hrs Arose, dressed, and prepared to drive to our collecting site.

0710 hrs Made bats in the net left out over night, including a Desmodus and several large Artibeus.

0830 hrs Returned from checking my 80 traps. I collected 3 Heteromys, 3 Oryzomys and one small (large) that may be a Echymyid - although it is not spiny. Ed caught 4 Heteromys and also collected another individual of the one described above. Phil collected another as well.

0920 hrs Arrived back in Limón after helping Phil remove all the bats from the nets. Those species not on the permit were released. (Glossophaga, Uroderma, Lonchophylla).

We will load our gear, eat breakfast, and drive to San José tonight and trap near Villa Colon.

1130 hrs Arrived Turrialba

1210 hrs Arrived San José.

1350 hrs Our usual hotel was full, so we found a "place" Pension Americana for $50 per person. It is a dive and we are on the top floor - making it hard to move all our gear up there.

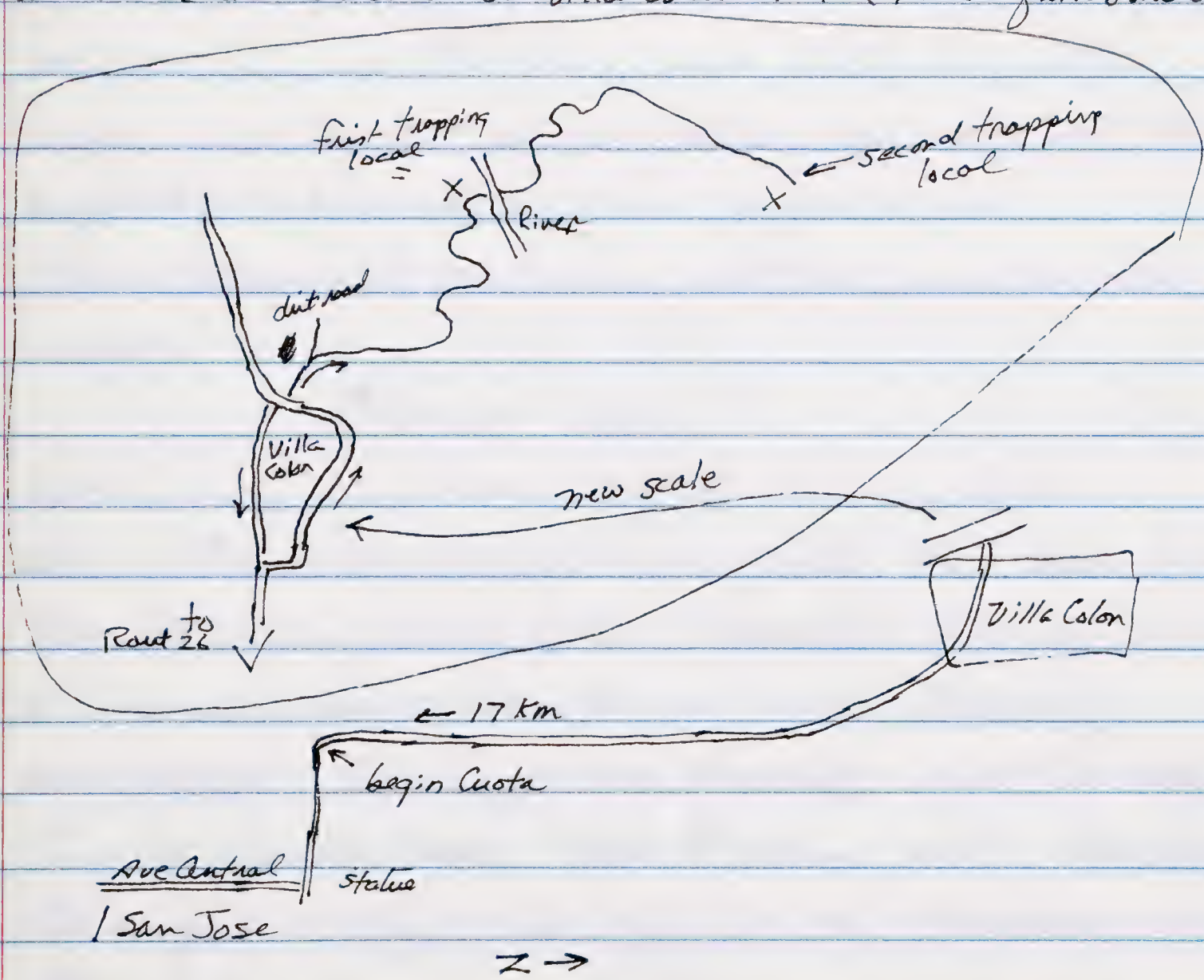
1420 hrs Left San José for Villa Colon

1600 hrs Prepared to leave Villa Colon after stopping to eat. We were told of "forest" west of town. We will attempt to find it and set traps in it.

1900 hrs Returned to Pension Americana. The areas (two we trapped)

Duke S. Rogers
1982

in were not all that great. One was along a small river (up on steep sides) and the next was ca. 1 km past this is some forest. It looked great from the road, but after going through only several feet on dense secondary growth the "forest" itself only a narrow band ca. 30 m in width had little or no understory. The directions to these two localities are as follows: Proceed out of San Jose (west) and take the toll road (Route 26) to the Villa Colon exit (17 km from San Jose).



The exit for Villa Colon goes to the right then over the highway ~~left~~ right
When in town you have to go ~~left~~ then left on a one way street heading west after the left turn. Continue on for ca. .5 km then the road will once again curve to the left. At the juncture of the highway going out of town and the

Duke S Rogers
1982

one way road (to the left) back into Villa Colon then is a dirt road on the right - this is the one that leads to the two collecting localities. After 0.2 km take a dirt road to the right. Continue on this road for 0.8 km to a river and a narrow bridge. This is the first local (1.6 km w by rd) Villa Colon). Continue on this road for another 1.2 km (second local = 2.6 km w (by road) Villa Colon). This one is located along a small stream. This area is very barren under the trees, with little leaf litter, slope about 30-40° in most places traps were set. The vegetation is bordered by some coffee plants.

1930 hrs Returned to the Pension and took care of our live animals

7 August (Sunday)

0615 hrs Arose, dressed and left to check our traps.

0830 hrs Completed checking traps at both Villa Colon locals. From the stream local (1.6) I collected a Sigmodon hispidus in secondary growth near the road and a Proechimys semispinosus. Ed caught one Proechimys and Phil nothing. From the farther local I took 3 hicmys and 1 Proechimys. Ed caught 3 hicmys, one Sigmodon & 1 Proechimys and Phil 2 hicmys.

0915 hrs Stopped for breakfast outside of the town to Paseo Colon.

1030 hrs Checked out of Pension American. Tried to get back into Cocori but were unable to. We plan to look for

another place and to call Pedro here to see if we can arrange to work in the laboratory today.
12:20 hr Arranged with Pedro to work in the lab karyotyping and still need a place to stay.
1930 hr Spent the afternoon and evening karyotyping We are staying at Hotel Asia., located on 11th street about 3/4 of a block north of Avenida Central for ₡170/night for three.

2 August Monday

0700 hr Arose, dressed and prepared to leave for breafast.
0840 hr Arrived at the labaroter, I plan to karyotype this morning, then take the afternoon off. Today is a religious holiday, celebrated by many people making a pilgrimage to Cartago from San José. Phil has moved his departure date up to the 4th, so he will be getting his possessions organized and we will have to plan what he will claim on his permit.
2100 hr Phil and I discussed what he will claim. In addition to taking a dozen live heteronyids back, he will claim about 35 other prepared skins plus skeletal material and some alcoholics. He will be turning over to the permit office one example of each species he is claiming as an alcoholic. Tomorrow morning will be spent going with Phil to obtain his expatriate permit and expatriation license. I want to go with him instead of karyotyping so I will know what to do.

Duke & Rogers
1982

Journal

August 3 (Tuesday)

0610 hrs Arose and prepared to go to the permit office after eating breakfast.

0730 hrs Met a fellow Berkeley grad student at our breakfast spot - Beth Beaker - a grasshopper ecologist. She is leaving for California today but may change her reservations to tomorrow morning to fly back with Phil. Ed is running some errands while Phil and I work on the permits.

0940 hrs. The process of obtaining an exportation permit and licence went very smoothly. Phil turned a list over with common and scientific names and numbers of animals collected for approval. - it was approved rather routinely. We left his donated specimens there with the message that there would be more soon arrived so that they would keep the containers there in the office. Next we went to the Banco Centra (Central Ave + Calle O) for the exportation licence (the place to get this is on the second floor of the bank). This took about 15 minutes.

1830 hrs I have spent the remainder of the day working up the remaining animals. I will not hold for taking back to Berkeley. Pedro and Tony want to take us to a bar for drinks and discussion tonight.

4 August (Wednesday)

0500 hrs Arose and prepared to drive Phil to the airport for his 0700 hrs departure. We will pick up Beth as well

Duke S Rogers
1982

Journal (36)

0730 hrs Phil got through with no problems - no excess baggage charges or problems with the live animals
1000 hrs Finally heading out of San José after buying bait for the live traps, cotton, changing money, breakfast, checking the vehicle out for another week and picking up some equipment at the UNA. We are heading for a locality near Dominical - on the coast about 3-4 hrs away.
1330 hrs The road to Dominical out of San Isidro is a fairly poor dirt road and I don't want to risk damage to the VW bus by driving on it for 33 kms (at least) one way. We decided to drive on toward Palmar Norte.
1830 hr We have returned to San Isidro to get a Hotel room after driving quite a distance from town and finally setting our traps at two different locals. (see entry further down).
2130 hrs The two localities where we set traps are the following:
16 km SE (by rd.) San Isidro, 525 m, Prov. San José, Costa Rica
The area is located on the right-hand side of the road when going away from San Isidro. This area has fairly tall trees (ca 15-20 m), but very few large, mature trees. The area has fairly good understory (but only in places) of broad herbaceous large leafed plants from 0.3 m to 1.5 m in height. Leaf litter is fairly thin (ca 1-2 cm). The area slopes gently upward from the road - ca. 10°. The second area is located 34.7 Km SE (by rd) San Isidro, 525 m, Prov. San José

Duke S Rogers
1982

Journal (37)

This area is also located on the right-hand side of the road when driving away from San Isidro and is a much smaller patch of forest (although more mature) than the first site. The area is also fairly flat once you climb up the side on the roadside. This area has more fallen logs, thicker leaf litter, greater amount of understory and in general larger trees composing the canopy. I set 40 traps there and Ed 30. At the first site I set 60 and so did Ed.

5 August (Thursday)

0630 hrs Arose, dressed, got our gear together, and went down to eat breakfast.

0930 hrs Completed checking both localities. From the first site (16.3 kms) I caught one Heteromys and a Proechimys. Ed caught only one oryzomys - but it was a Heteromys. Both Heteromys were juveniles - The one I collected one of the smallest I have ever trapped (perhaps the smallest - or youngest). From the second locale Ed collected one Oryzomys and a Proechimys. I caught 14 animals including 12 Oryzomys (2 or 3 species) and 2 Proechimys, but no Heteromys. One of the Oryzomys was dead in the traps, I suspect due to ants as they were all over the animal and several other mice in traps were fending off ants.

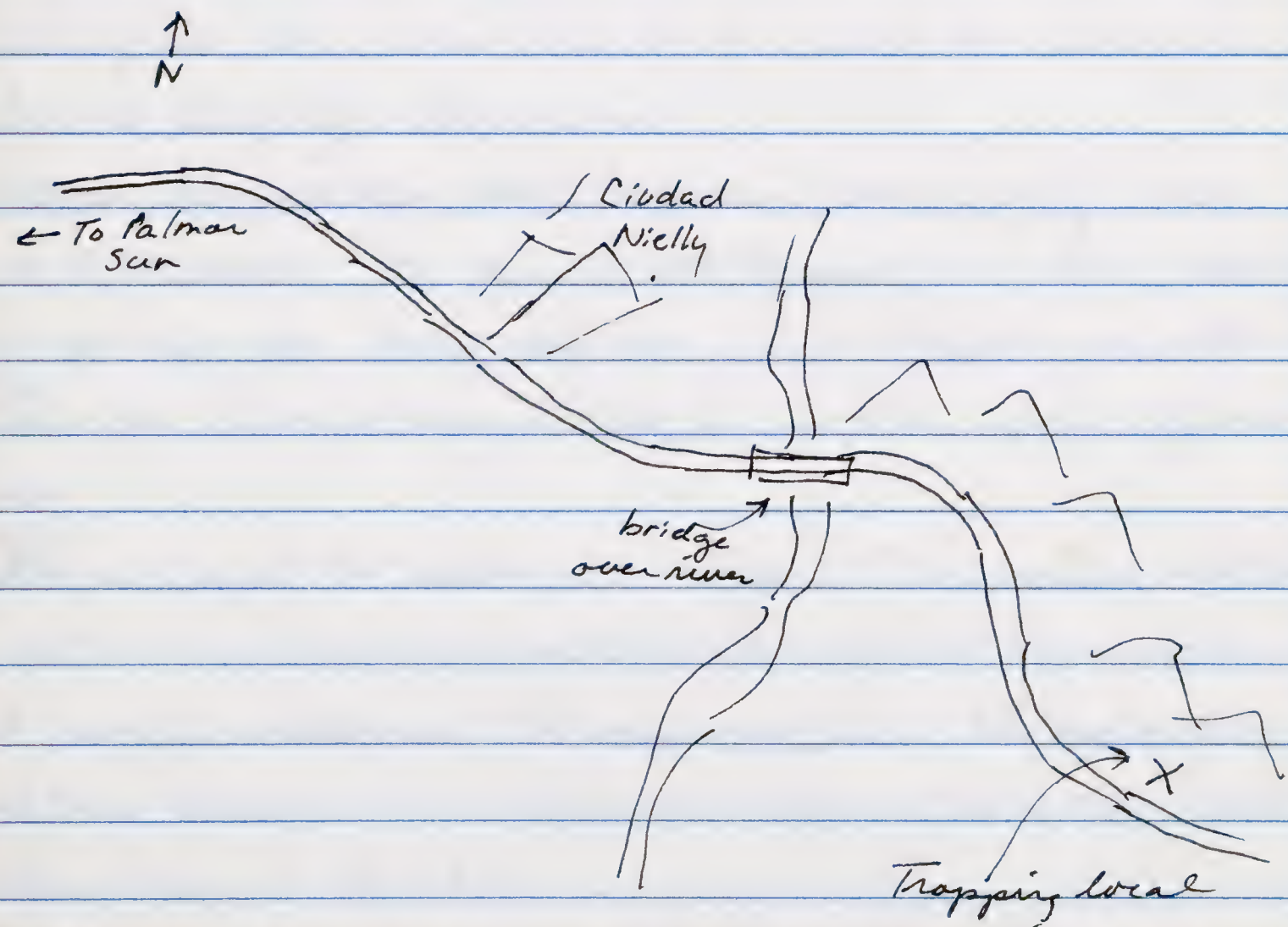
1230 hrs We are in route to the San Vito area, located near the Panamanian border. Just passed through Palmar Sur. I have several localities along the road to San Vito (Hwy 16 out of Villa Neily).

Richard Rozzer
1982

Journal

1600 hrs. Arrived Ciudad Nielly (Not Villa Nelly,) and have attempted to take the road to San Vito. However, the road was very bad - passable in a VW bus but very hard on it. I did not want to risk damage to the vehicle so we turned around after drive ca. 10 km and winding up to 850 m from near sealevel of Ciudad Nielly

1830 hr Ed and I each set a line of traps in a fairly undisturbed area of forest just southeast of town (See map below)



The locality is 1.1 km SE (by rd.) Ciudad Nielly, 25 m, Prov. Puntarenas, Costa Rica. It is located on the other side of the river behind some cultivated land on a hillside. You can see the fairly large trees and mature appearing vegetation quite easily from the road.

Duke S. Rogers
1982

The forest itself is composed of large mature trees, moderately disturbed by logging. Very little flat areas, the trapping area consisted of a series of small ravines. The understory consisted of broadleaf plants - 0.2 to 2 m in height. Moderately thick leaf litter in some areas (20-30 mm) grading to none (essentially) in others.

Friday 6 August

0530 hrs Arose, dressed and left for our trapping locality
0730 hrs Returned to hotel. I collected 5 Heteromys from 46 traps set and Ed 2 from 30 traps. We intend to eat breakfast, then drive back to San José and set up a time to karyotype the animals.
1230 hrs Stopped at a Hotel-Restaurant near crest of Cerro de la Muerte. We plan to set traps at our first locality of the trip, then drive into San José. I don't want to keep the lowland animals up here as I am afraid they will die.
1530 hrs Completed setting 100 traps (70 in mature vegetation and 30 in Secondary growth). Ed set out 80. I hope to pick up additional Heteromys oresterus to take back alive.
1650 hrs Arrived San José and stopped in to talk with Pedro Leon at the Univ.
1900 hrs We have set up a time to karyotype (tomorrow afternoon) and have checked into the hotel Cocori once again. We plan to leave early to check our traps in the mountains tomorrow

Duke S. Rogers
1982

Journal (40)

7 August (Saturday)

0510 hrs Arose, dressed and prepared to drive to our collecting locality.

0715 hrs Arrived at 2.2 mi (by rd) E La Tunidad de Dota after stopping for gas.

940 hrs Completed checking and pulling in my 100 Sherman's Animals collected in the forest from 70 traps included: 2 Heteromys desertorum, 3 Reithrodontomys 5 Oryzomys, and 2 Peromyscus mexicanus and one Scotinomys. Ed caught two mice (1 Reithro mexicanus and 1 oryzomys devius).

1135 hrs Arrived San José and the Univ. of Costa Rica. - We arranged with Pedro Leon to return in the afternoon to do some karyotyping.

1740 hrs Completed karyotyping a series of animals. We also put up several animals as skeleton only preps because they were either dead or nearly so when we found them in the traps (due to rain and cold). In addition a Scotinomys and a P. mexicanus were put up as alcoholics to donate to the people at the permit office. Pedro will not be in tomorrow (Sunday) nor will anyone else, so we plan to save the animals remaining alive for karyotyping on Monday the 9th. At any rate, some of the most critical animals were done this afternoon.

8 August (Sunday)

0700 hrs Arose, dressed, and prepared to leave hotel (Cocori) We plan to spend at least part of the day going to the National Museum and the Zoo.

Duke S. Rogers
1982

Journal (41)

1100 hr After touring the Museum and finding the zoo closed, we have decided to drive up to Volcan Irazu and look for a good forest to set traps in.

1420 hrs We are on the Volcan. There is very little forest even in the new National Park noted here several years ago above 3000 meters in altitude.

1500 hr We decided to try to trap at a locality given to us by Mark Hafner. We plan to drive into the property after walking in and talking with the owner.

46 = Turrialba

49 = Tilirán

42 = Ciudad Quesada

45 = Limón

D. S. Rogers
1980-1982

Catalogue

#1300-2286

Duke S. Rogers
1980

Catalogue

9.3 mi N (by road) El Rosario, Baja California Norte, Mexico

5 September

159778	1300 *Peromyscus maniculatus coolidgei*	+tissue
	♂ 148-69-20-18	scrotal, t=10x6, sv=6
lost	1301 *Perognathus*	skull only
	♀ 173-93-21-9	
lost	1302 *Perognathus*	skull only
	♂ 183-107-23-9	
lost	1303 *Perognathus*	skull only
	♂ 173-96-22-9=13g	

10 mi SE (by road) El Rosario (at bend in Hwy), Baja California Norte, Mexico

5 September

lost	1304 *Perognathus*	skull only +tissue
	♀ 80-100-21-9	nuliparous
159762	1305 *Perognathus formosus cinerascens*	skin only +tissue
	♂ 204-116-25-10	
lost	1306 *Perognathus*	skull only
	♀ 166+74+23-10=17g	
lost	1307 *Perognathus*	skull only
	♂ 167-93-21-9=10g	t=4x2mm
lost	1308 ~~*Perognathus*~~ *Peromyscus*	skeleton only
	♂ 200-113-20-20	

Duke S. Rogers
1980

Catalogue

7 km W (by road) Bahia de Los Angeles, Baja California Norte, Mexico.

7 September

lost 1309 *Perognathus* + tissue, nuliparous, skeleton only
♀ 177-104-21-8 = 9g

159763 1310 *Perognathus spinatus pricteae* + tissue, skeleton only
♂ 186-102-22-8 = 10.5g

159764 1311 *Perognathus* " " + tissue
♂ 218-107-21-9 = 10g

159765 1312 *Perognathus* " " + tissue, t = 8x4 mm
♂ 158+83+22-9 = 10g

159766 1313 *Perognathus* " + tissue, skin only
♀ 176-106-21-8 = 7g

159767 1314 *Perognathus* " + tissue, nuliparous, skin only
♀ 165+90+22-8 = 9g

159768 1315 *Perognathus* " + tissue, nuliparous
♀ 165-99-20-7 = 5g

159769 1316 *Perognathus* " + tissue, scars 3L, 2R
♀ 183-117-21-8 = 10g skin only

159789 1317 *Neotoma lepida gilva* + tissue, t = 16x10mm
♂ 284+112+35-34 = 146g

159780 1318 *Peromyscus truei matiensis* + tissue, nuliparous
♀ 190-113-20-21 = 8g

159783 1319 *Peromyscus eremicus eremicus* + tissue, testes = 10x5 mm
♂ 189-108-19-20 = 10g

Duke S. Rogers
1918

Catalogue

7 Km W (by road) Bahia de Los Angeles, Baja California, Norte, Mexico.

7 September

159784 | 1320 Peromyscus sp | + tissue, nuliparous
♀ 194-113-21-20 = 11g

159785 | 1321 Peromyscus sp | + tissue, scrotal, t = 7x4
♂ 183-106-21-21 = 10g

MVZ
159727 | 1322 Ammospermophilus leucurus cantfieldae SKull only
♀ 283-78-34-9 = 78g

26 Km WNW (by road) Bahia de Los Angeles, Baja California Norte, Mexico

8 September

159776 | 1323 Dipodomys merriami annulus | + tissue, t = 12x8, SV = 6mm
♂ 251-143-39-14 = 36g | skull only

159752 | 1324 Perognathus arenarius ambiguus | + tissue, 2 scars 1R, 1L
♀ 143-86-21-7 = 8g

159772 | 1325 Perognathus spinatus spinatus | + tissue, t = 6x2mm
♂ 155-84-23-8 = 12g | much adipose tissue, skull only !

159753 | 1326 Perognathus arenarius ambiguus | + tissue, t = 5x2mm
♂ 147-77-21-7 = 7g

159754 | 1327 Perognathus sp | + tissue scars 2L, 1R
♀ 167-97-22-7 = 10g

159790 | 1328 Neotoma sp | + tissue skull only
♀ 297-143-32-30 = 98g

159791 | 1329 Neotoma sp | + tissue skull only
♀ 308-145-34-31 = 115 g

Duke & Rogers
1980

Catalogue

7 Km W (by road) Bahia de Los Angeles, Baja California Norte, Mexico

8 September

159792 1330 *Neotoma* sp. skull only + tissue
♀ 304-146-32-34 = 105g

159786 1331 *Peromyscus eremicus eremicus* skull only + tissue
♂ 170-96-18-17 = ~~160~~ 149 + = 4x3 mm

159770 1332 *Perognathus* spinatus prietae skull only + tissue
♂ 186-106-22-7 = 15g + = 12x5

159771 1333 *Perognathus* spinatus prietae + tissue
♀ 172-98-21-7 = 11g

Santa Agueda, Baja California Sur, Mexico

9 September

MVZ
159728 1334 *Spermophilus atricapillus* skull only
♀ 387-185-54-22 = 258g

159788 1335 *Peromyscus eremicus eremicus* skull only
♂ 167-101-19-16 = 11g + = 7x4 mm

San Ignacio, Baja California Sur, Mexico

11 September (rocky plateau east and above town)

159755 1336 *Perognathus baileyi extinus* + chromo, tissue
♀ 148+58+26-9 = 20g multiparous

159756 1337 *Perognathus baileyi* " + chromo, tissue
♂ 216-111-25-8 = 25.5g + = 7x4 mm

159757 1338 *Perognathus baileyi* " + chromo, tissue
♀ 218-114-25-9 = 21g multiparous

159758 1339 *Perognathus baileyi* " + chromo, tissue
♂ 214-113-24-9 = 21.5g + = 7x4 mm

Duke S Rogers
1980

Catalogue
San Ignacio, Baja California Sur, Mexico
11 September

159759	1340 *Perognathus baileyi*	+tissue
	♂ 186-109-24-8 = 17.5g	
159760	1341 *Perognathus baileyi*	+tissue
	♀ 156+78+24-9 = 17g	
159773	1342 *Perognathus spinatus broccus*	+tissue, skull only
	♂ 171-107-23-8 = 12g	♀ = 3X2 mm
159761	1343 *Perognathus*	+tissue
	♀ 184-111-26-19 = 15g	nulliparous
159787	1344 *Peromyscus truei martirensis*	+tissue, skull only
	♂ 163-110-21-18 = 15g	
159774	1345 *Peromyscus eva*	+tissue, skull only
	♀ 178+95+19-18 = 16g	

(date palm area)

159775	1346 *Perognathus spinatus broccus*	+tissue
	♂ 183+108+22-9 = 17g	♀ = 8X5 mm
159781	1347 *Peromyscus*	+tissue
	♀ 182-112-21-16 = 15g	nulliparous
159782	1348 *Peromyscus*	+tissue
	♀ 206-104-22-17 = 19g	

Vizcaino, Baja California Sur, Mexico
12 September

159731	1349 *Thomomys bottae russeolus*	skeleton only +tissue
	♂ 222-73-32-5 = 123g	♀ = 15X10mm
159732	1350 *Thomomys bottae* "	skeleton only
	♀ 207-64-30-4 = 120g	6embs (4R, 2L = 12mm)

Duke S. Rogers
1980

Catalogue
Vizcaino, Baja California Sur, Mexico
12 September

159733	1351 ♀ 217-67-29-5	Thomomys bottae russcolus	skeleton only + tissue uteri enlarged
159734	1352 ♀ 215-269-31-5 = 134g	Thomomys bottae "	skeleton only + tissue uteri enlarged
159735	1353 ♀ 235-63-31.5 = 148g	Thomomys bottae "	skeleton only 4 scars, 2R, 2L + tissue
159736	1354 ♀ 204-58-30-4	Thomomys bottae "	skeleton only + tissue nulliparous
159737	1355 ♀ 212-64-30-5	Thomomys bottae "	skeleton only + tissue uteri enlarged
159738	1356 ♀ 210-63-29-5	Thomomys bottae "	skeleton only + tissue uteri enlarged
159739	1357 ♀ 232-72-30-5 = 162g	Thomomys bottae "	+ tissue 2 scars, 1L, 1R
159740	1358 ♀ 227-78-28-5 = 110g	Thomomys bottae "	+ tissue lactation, scars, 1L, 1R
159741	1359 ♀ 227-69-30-5 = 110g	Thomomys bottae "	+ tissue, skeleton only
159742	1360 ♀ 193-66-29-5 = 96g	Thomomys bottae "	+ tissue uteri swollen skeleton only
159743	1361 ♀ 223-70-30-5 = 94g	Thomomys bottae "	+ tissue nulliparous skeleton only
159744	1362 ♀ 221-71-28-5 = 134g	Thomomys bottae "	+ tissue uteri swollen

Duke S. Rogers
1980

Catalogue

Vizcaino, Baja California Sur, Mexico

12 September

159745 1363 Thomomys bottae russeolus skeleton only
♂ 227-69-33-6 = 188g t = 19x13

159746 1364 Thomomys bottae " skeleton only
♀ 220-63-31-6 = 150g uteri swollen

159747 1365 Thomomys bottae " skeleton only
♀ 187-62-28-4 = 66g uteri swollen

28 mi ESE Guerrero Negro (by road), Baja California Sur, Mexico

12 September

159778 1366 Dipodomys peninsularis peninsularis
♂ 264 + 158 + 40-16 = 62g t = 7x4mm

22.9 mi ESE (by road) Guerrero Negro, Baja California Sur, Mexico

12 September

159777 1367 Dipodomys merriami annulus skull only
♂ 201-127-14-11-27g t = 6x3mm

San Ignacio, Baja California Sur, Mexico

12 September

MVZ 159729 1368 Spermophilus atricapillus
♂ 470-188-55-28

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Catalogue

Vizcaino, Baja California Sur, Mexico

12 September

159748	1369 ♀ *Thomomys bottae* ~~ossecolus~~	+chromo, tissue
	230-71-30-5 = 136g	uteri swollen
159749	1370 *Thomomys bottae*	+chromo, tissue
	♀ 171-58-28-4 = 46g	nulliparous
159750	1371 *Thomomys bottae*	+chromo, tissue
	♂ 251-71-33-6 = 172g	t = 15x10 mm

Santo Dominguito, 15.1 mi S (by road) Puenta Prieta, Baja California Norte, Mexico

13 September

MVZ 159730	1372 *Thomomys bottae cactophilus*	+tissue
	♂ 194-59-24-4 = 68g	t = 13x7mm

Vizcaino, Baja California Sur, Mexico

12 September (died 17 Sept.)

159751	1373 *Thomomys bottae russeolus*	+chromo
	♀ 209-75-29-5 = 71g	pelvis notched
	prepared by J.L.P.	uteri enlarged

Duke S. Rogers
1980

Catalogue

Russel Reservation, Lafayette, 775 ft., Contra Costa Co., California — coll. by E. Heske

MVZ 159821 — 1374 *Peromyscus californicus* — 21 (September) (died 22 Sept.) — nulliparous
♀ 251+128+28-24 = 39g — + chromo

~~MVZ~~

Claremont Canyon, Alameda Co., California

20 September (died 22 Sept.) — coll. by S.W. Sherwood

MVZ 159818 — 1375 *Peromyscus californicus* — + chromo
♂ 250+129+27-26-45g — t = 7X5mm

MVZ 159819 — 1376 *Peromyscus californicus* — + chromo
♀ 248-133-27-25 = 34g — left uterus enlarged

died 5 October

MVZ 159820 — 1377 *Peromyscus californicus* — t = 7X5 mm
♂ 254-133-27-26 — + chromo

MVZ 159817 — 1378 *Perognathus californicus* — t = 5x3mm
♂ 204-105-25-12 — + chromo

Duke S. Rogers
1980

Catalogue

10.8 mi NW (by rd.) Motozintla de Mendoza, Cerro Motzotol, 2450 m, Chiapas Mexico

13 December

MVZ

159522 1380 *Peromyscus boylii* ♂ 183-80-22-17 = 18g — ± tissue (at least 3 hours old) to 5x3mm

159523 1381 *Peromyscus boylii* ♂ 215-99-23-19 = 23g — ± tissue (at least 3 hours old) ± = 13x5mm

159524 1382 *Peromyscus guatemalensis* ♀ 268-132-29-21 = 45g — ± tissue, body skel 4 scars, 2e, 2L (at least 3 hours old)

159525 1383 *Peromyscus guatemalensis* ♂ 252-128-29-21 = 46g — ± tissue, skeleton only ± = 15x10 mm (at least 3 hours old)

12.6 mi NW (by rd.) Motozintla de Mendoza, Cerro Mozotol, 2700 m, Chiapas, México.

13 December

159733 1384 *Neotoma mexicana* ♂ 341-162-33-25 = 120g — ± tissue ± = 18x10 mm

159734 1385 *Neotoma mexicana* ♂ 332-164-34-24 = 107g — ± tissue ± = 15x9 mm

159526 1386 *Peromyscus boylii* ♀ 211-104-23-21 = 25g — ± tissue Nulliparous

12.6 mi NW (by rd.) Motozintla de Mendoza, Cerro Mozotol, 2700 m, Chiapas, México

14 December

159527 1387 *Peromyscus boylii* ♂ 188-90-22-20 = 19g — testes = 12x7 mm

D.S. Rogers
1980

Catalogue (2)

10.8 mi NW (by rd.) Motozintla de Mendoza, Cerro Mozotal, 2450m., Chiapas, Mexico

14 December

159528 1388 Peromyscus guatemalensis +tissue
♂ 232-122-27-20 = 32g t = 6x3 mm

12.6 mi NW (by rd.) Motozintla de Mendoza, Cerro Mozotal, 2700m., Chiapas, México

14 December

159529 1389 Peromyscus guatemalensis +tissue
♂ 282-146-28-25 = 63g t = 18x10mm

159530 1390 Peromyscus guatemalensis +tissue
♂ 262-135-28-22 = 46g t = 17x9 mm

13.5 mi NW (by rd.) Motozintla de Mendoza, Cerro Mozotal, 2800m., Chiapas, México

14 December

159531 1391 Peromyscus guatemalensis +tissue
♂ 262-139-30-26 = 52g 13x7mm

159532 1392 Peromyscus guatemalensis +tissue
♂ 268-142-30-24 = 46g 13x8 mm

159533 1393 Peromyscus guatemalensis +tissue
♀ 279-146-30-24 = 52g scars, 2R, 1L

159534 1394 Peromyscus guatemalensis +tissue
♀ 235-127-28-21 = 38g nulliparous

159535 1395 Peromyscus guatemalensis +tissue
♂ 286-152-30-24 = 58g t = 15x10m

159536 1396 Peromyscus guatemalensis +tissue
♂ 272-147-30-26 = 55g 14x9mm

Duke S. Rogers
1980

Catalogue

13.5 mi. NW (by road) Motozintla de Mendoza, Cerro Mozotal, 2800 m.,
Chiapas, México

14 December

159537 1397 *Peromyscus guatemalensis* + tissue
♀ 218-109-28-27=31g nulliparous

159538 1398 *Peromyscus guatemalensis* + tissue
♂ 264-138-29-25=47g t= 13x8 mm

16 December
Coll. 15 Dec

159488 1399 *Heteromys nelsoni* + sperm, glans, blood, tissue, chroma.
♂ ~~354~~ 182-43-23=110g t=26 mm

159489 1400 *Heteromys nelsoni* + blood, tissue, chroma.
♀ 240+80+40-22=60g nulliparous

159539 1401 *Peromyscus guatemalensis* + glans, blood, tissue, chroma.
♂ 271-140-30-25=42g t=9 mm

159540 1402 *Peromyscus guatemalensis* + blood, tissue, chroma.
♀ 258-137-28-25=41g nulliparous

159541 1403 *Peromyscus boylii* + blood, tissue, chroma
♀ 187-93-21-20=25g Coll. 14 Dec cmb, 3R, 1L; CR=6mm + body skel.

159490 1404 *Heteromys nelsoni* + sperm, glans, tissue, blood, chroma.
♂ 309+162+44-21=75g t=22x14 mm
(Died 17 Dec.)

16 December

159514 1405 *Reithrodontomys* + tissue (died in the night)
♂ 166-93-18-15=10g t=6x4 mm

159542 1406 *Peromyscus boylii* (Died 17 Dec.)
♀ 181-89-22-21=16.5g 15 December nulliparous

159543 1407 *Peromyscus guatemalensis* + blood, chroma, tissue
♂ 222-115-28-23=23g t=5x4 mm

Duke S. Rogers
1980

Catalogue

(4)

Cerro Mozotal,
13.5 mi NW (by rd.) Motozintla de Mendoza, 2800 m.,
Chiapas, México

16 December (Died 17 Dec.)

MVZ

159544 1408 *Peromyscus guatemalensis* + blood, chromo, tissue
♂ 265-143-29-23 = 35 g t = 10x5 mm

159545 1409 *Peromyscus guatemalensis* + blood, chromo, tissue
♂ 258-138-27-21 = 36 g t = 14x7 mm

159546 1410 *Peromyscus guatemalensis* + blood, chromo, tissue
t = 12x6mm
♂ 275-146-32-23 = 45 g 15 December (Died 17 Dec.)

159491 1411 *Heteromys nelsoni* + glans, sperm, blood, chromo, tissue
♂ 348-176-43-22 = 92 g t = 21x14 mm

159547 1412 *Peromyscus boylii* + blood, chromo, tissue
♀ 209-98-22-21 = 22 g emb., 2L

12.6 mi NW (by rd.) Motozintla de Mendoza, Cerro Mozotal, 2450 m., Chiapas, México

14 December (Died 17 Dec.)

159548 1413 *Peromyscus boylii* + blood, chromo, tissue
♂ 210-91-22-21 = 24 g t = 8x4 mm

13.5 mi NW (by rd.) Motozintla de Mendoza, Cerro Mozotal, 2800 m.,
Chiapas, México

15 December (Died 17 Dec.)

1414 *Reithrodontomys* + blood, chromo, tissue
♂ 172-96-18-14 = 13 g t = 6x4 mm

13 December (Died 17 Dec.)

159549 1415 *Peromyscus guatemalensis*
♀ 252-133-28-23 = 40 g nulliparous, uteri swollen

15 December (Died 17 Dec.)

159515 1416 *Reithrodontomys* + tissue
♂ 160-89-16-15 = 9 g t = 6x4 mm

Duke S. Rogers
1980

Catalogue ⑤

Pozo de Petroleo, 7 mi N (by rd.) Berriozábal, 950 m.,
Chiapas, México

19 December

mvz			
159550	1417	*Peromyscus mexicanus*	+ tissue
		♂ 242-126-24-21 = 36g	t = 6x4
159551	1418	*Peromyscus mexicanus*	+ tissue
		♂ 221-114-25-21 = 31g	t = 4x2
159552	1419	*Peromyscus mexicanus*	+ tissue
		♀ 261-138-26-22 = 44g	lactating, scars, 3R, 1L
159553	1420	*Peromyscus mexicanus*	+ tissue
		♀ 216-107-25-20-30g	nulliparous
159554	1421	*Peromyscus mexicanus*	+ tissue
		♂ 222-121-25-20-31g	t = 4x2 mm
159555	1422	*Peromyscus mexicanus*	+ tissue
		♀ 252-128-26-21 = 47g	scars, 3L, 3R
159556	1423	*Peromyscus mexicanus*	+ tissue, bodyskel.
		♀ 232-117-25-20 = 36g	scars, 2L, 2R
159557	1424	*Peromyscus mexicanus*	+ tissue
		♀ 227-113-25-21 = 33g	nulliparous
159558	1425	*Peromyscus mexicanus*	+ tissue, bodyskel.
		♂ 240-122-26-21 = 43g	t = 11x7
159559	1426	*Peromyscus mexicanus*	+ tissue
		♀ 233-122-26-20 = 33g	nulliparous
159560	1427	*Peromyscus mexicanus*	+ tissue
		♀ 242-123-25-21-34g	scars, 2R, 1L
159561	1428	*Peromyscus mexicanus*	Tissue
		♀ 237-120-26-21 = 34g	nulliparous

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(6)

Catalogue (by nd.)

Pozo de Petroleo, 7 mi N Berriozábal, 950 m., Chiapas, Mexico

19 December

MVZ		
159562	1429 *Peromyscus mexicanus*	Skeleton only
	♂ 224-113-26-19 = 32g	† = 6X4
159563	1430 *Peromyscus mexicanus*	
	♀ 251-122-25-21 = 44g	lact, scars 2R, 1L
159564	1431 *Peromyscus mexicanus*	
	♀ 230-121-25-20 = 38g	nulliparous
159565	1432 *Peromyscus mexicanus*	
	♂ 208-114-25-19 = 30g	† = 6X4mm
159566	1433 *Peromyscus mexicanus*	
	♀ 212-111-25-21 = 26g	nulliparous
159567	1434 *Peromyscus mexicanus*	
	♂ 219-115-26-21 = 35g	† = 5X2mm
159501	1435 *Otomys phyllotis*	+tissue
	♂ 322-158-33-24 = 87g	† = 8X5mm
159502	1436 *Otomys phyllotis*	+tissue
	♂ 281-135-32-23 = 75g	† = 4X2mm
159503	1437 *Otomys phyllotis*	+tissue
	♂ 275-136-30-20-55g	† = 3X2mm
159504	1438 *Otomys phyllotis*	+tissue
	♂ 308-147-31-24 = 88g	† = 8X5mm
159505	1439 *Otomys phyllotis*	+tissue
	♂ 258+69+33-27 = 126g	† = 15X8mm
159506	1440 *Otomys phyllotis*	+tissue
	♂ 314+128+33-26 = 106g	† = 10X6

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Catalogue (7)

Pozo de Petroleo, 7 mi N (by rd) Berriozábal,
950m., Chiapas, México
19 December

MVZ		
159507	1441 Otty lomys phyllotis	+ tissue
	♂ 320+144+33-25=115g	f=13X8mm
159447	1442 Pteronotus davyii	skeleton only
	♂ 77-18-10-16-tr5 = 7g	forearm = 45mm

20 December

159568	1443 Peromyscus mexicanus	+ tissue
	♀ 251-136-26-21=36g	nulliparous
159569	1444 Peromyscus mexicanus	+ tissue
	♂ 236-117-25-19=42g	t=8X5
159570	1445 Peromyscus mexicanus	+ tissue
	♀ 234-117-25-20=39g	6 scars, 3R, 3L
159571	1446 Peromyscus mexicanus	+ tissue
	♂ 239-128-26-20=38g	t=6X3mm
159572	1447 Peromyscus mexicanus	+ tissue
	♂ 242-123-25-20=42g	t=7X4mm
159573	1448 Peromyscus mexicanus	+ tissue
	♂ 238-122-26-21=44g	t=11X5mm
159574	1449 Peromyscus mexicanus	+ tissue
	♀ 216-104-25-19=28g	nulliparous
159575	1450 Peromyscus mexicanus	+ tissue
	♀ 227-116-25-21=32g	nulliparous
159576	1451 Peromyscus mexicanus	+ tissue
	♂ 228-122-25-21=28g	t=4X2mm
159577	1452 Peromyscus mexicanus	+ tissue
	♀ 227-117-25-20=31g	nulliparous

Duke S. Rogers
1980

Catalogue

(5.5 mi SE (by rd.) Mapastepec, 50 m., Chiapas, México

12 December (Died 21 Dec.)

MVZ			
159578	1453	*Peromyscus gymnotis*	(several hrs. old) +tissue
	♂	195-101-25-18=28g	ŧ=16x8 mm
159579	1454	*Peromyscus gymnotis*	(several hrs. old) +tissue
	♀	212-111-24-19=27g	embs, 3R, CR=7mm

4 mi W (by rd.) San Cristobal, ca. 2300 m., Chiapas Mexico

21 December

159580	1455	*Peromyscus boylii*	+tissue
	♂	199-106-24-18=25g	ŧ=8x5mm
159581	1456	*Peromyscus boylii*	+tissue
	♂	183-88-22-18=21g	ŧ=5x2mm
159582	1457	*Peromyscus boylii*	+tissue
	♂	198-102-23-19=26g	ŧ=11x6 mm (several hrs. old)
159583	1458	*Peromyscus boylii*	~~skeleton only~~, +tissue
	♀	188-94-23-18=26g	uteri swollen
159584	1459	*Peromyscus boylii*	+tissue
	♂	193-102-22-18=21g	ŧ=5x3mm

Pozo de Petroleo, 7 mi N (by rd.) Berriozabal, 950 m.,
Chiapas, México

20 December (Died 21 Dec.)

159585	1460	*Peromyscus mexicanus*	
	♀	223-122-28-20=34g	scars; 1R, 2L
159586	1461	*Peromyscus mexicanus*	skeleton only
	♂	242-127-24-19=36g	ŧ=8x4mm

19 December

159448	1462	*Artibeus*	
	♂	?-?-16-20-ŧ=7	ŧ=7x4mm; forearm=58mm

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Catalogue (9)

3.9 mi NE (by rd) Bochil, ca. 1200 m., Chiapas, México

22 December

MVZ			
159516	1463	Reithrodontomys	+ tissue, body skel.
	♀	188-111-18-14 = 11g	nulliparous
159587	1464	Peromyscus	+ tissue
	♂	230+95+26-19 = 41g	t = 12x7mm
159588	1465	Peromyscus	+ tissue
	♂	211-108-23-19 = 26g	t = 5x3mm
159589	1466	Peromyscus	+ tissue
	♂	218-104-25-20 = 27g	t = 4x2mm
159590	1467	Peromyscus	+ tissue
	♂	222-116-25-18 = 32g	t = 8x4mm
159591	1468	Peromyscus	+ tissue
	♂	214-108-24-19 = 30g	t. 4x2mm
159592	1469	Peromyscus	+ tissue
	♂	219-113-26-19 = 23g	t = 6x4mm

4 mi W (by rd.) San Cristobal, ca. 2300 m., Chiapas, Mexico

21 December (Died 22 Dec.)

159593	1470	Peromyscus boylei	+ tissue
	♂	180-90-23-17 = 20g	t = 6x4mm
159594	1471	Peromyscus boylei	+ tissue
	♂	199-98-22-19 = 26g	t = 9x6mm
159595	1472	Peromyscus boylei	+ tissue
	♀	195-98-22-17 = 25g	nulliparous + body skel
159596	1473	Peromyscus Boylei	+ tissue
	♀	202-100-22-20 = 29g	lact. uteri swollen
159597	1474	Peromyscus boylei	+ tissue
	♂	202-104-23-20 = 26g	t = 6x3mm

Duke S. Rogers
1980

Catalogue (10)

4 mi W (by rd.) San Cristobal, ca. 2300 m., Chiapas, Mexico

21 ~~December~~ (Died 22 Dec.)

MVZ
159598 1475 *Peromyscus boylii* + tissue

♂ 191-97-22-18 = 24g t = 6x4mm

Pozo de Petroleo, 7 mi N (by rd.) Berriozábal, 950 m., Chiapas, Mexico.

20 December (Died 22 Dec)

159508 1476 *Oryzomys phyllotis* + tissue

♂ 301-143-31-24 = 78g t = 7x5mm

159509 1477 *Oryzomys phyllotis* + tissue

♂ 305-148-33-23 = 74g t = 6x4mm

159510 1478 *Oryzomys phyllotis* + tissue

♀ 348-162-33-26 = 104g no scars

3.5 mi SE (by rd.) Rayon, ca. 1000 m., Chiapas, Mexico.

23 December

(ca. 1-2 hrs old)

159445 1479 *Marmosa mexicana* + tissue

♂ 269-186-19-19 = 24g t = 5x3mm

13.5 mi NW (by rd.) Motozintla de Mendoza, 2800 m., Chiapas Mexico

14 December (Died 23 Dec.)

159492 1480 *Heteromys nelsoni* + tissue

♀ 232+117+39-19 = 64g 6x4mm

3.9 mi NE (by rd.) Bochil, ca. 1200 m., Chiapas, Mexico.

22 December (Died 23 Dec)

159599 1481 *Peromyscus* SA

♀ 181-98-25-18 = 16g skeleton only

159600 1482 *Peromyscus* SA

♂ 188-97-25-16 = 17g skeleton only

Duke S. Rogers
1980

Catalogue

3.9 mi NE (by rd) Bochil, ca. 1200 m., Chiapas, Mexico

22 December (Died 23 Dec)

mvz			
159601	1483	*Peromyscus*	skeleton only
	♀	218-110-~~8~~4-20=25 g	uteri swollen
159602	1484	*Peromyscus*	skeleton only
	♂	204+97+25-20=34g	

5.1 mi SE (by rd.) Rayon, ca. 1050 m., Chiapas, Mexico.

23 December

159517	1485	*Reithrodontomys*	(dead from sev. hrs) +tissue
	♀	160-88-18-15=8g	nulliparous
159518	1486	*Reithrodontomys*	(dead for several hrs) +tissue
	♀	155-84-17-15=8g	nulliparous
159519	1487	*Reithrodontomys*	+tissue
	♀	153-87-18-15=9g	nulliparous

3.5 mi SE (by rd.) Rayon ca. 1000 m, Chiapas, Mexico

23 December (Died 24 Dec.)

159603	1488	*Peromyscus zarhynchus*	+chrono, blood, tissue
	♀	299-149-32-24=65g	nulliparous
159604	1489	*Peromyscus zarhynchus*	+chrono, blood, tissue
	♀	286-142-33-24=64g	nulliparous
159605	1490	*Peromyscus zarhynchus*	+chrono, blood, tissue
	♂	268-132-32-22=50g	t=4x3mm
159606	1491	*Peromyscus zarhynchus*	+chrono, blood, tissue
	♂ t	292-157-32-26=62g	scars, ?R, 3L
15-9607	1492	*Peromyscus zarhynchus*	+chrono, blood, tissue
	♀	263-137-32-24=54g	nulliparous
159608	1493	*Peromyscus zarhynchus*	+chrono, blood, tissue
	♂	262-142-32-22-40g	t=4x2mm

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Catalogue

Pozo de Petroleo, 7 mi N (by rd.) Berriozabal, ca. 950 m. Chiapas Mexico

20 December (Dissd 24 Dec)

MVZ
159457 | 1484 Heteromys — +chromo, blood, tissue
♀ 222+117+35-16=42g — nulliparous

159458 | 1495 Heteromys — +chromo, blood tissue
♀ 263-146-35-17=47g — nulliparous
3.5 mi SE (by rd.) Rayon, ca. 1000 m, Chiapas, Mexico

23 December (Dissd 24 Dec.)

159459 | 1496 Heteromys — +chromo, blood, tissue
♀ 302-163-36-19=61g — nulliparous

159460 | 1497 Heteromys — +chromo, blood, tissue
♀ 241-132-34-16=39g — nulliparous

159446 | 1498 Marmosa mexicana — +chromo, blood, tissue
♂ 260-161-17-21=20g — t=5x4mm

159493 | 1499 Oryzomys (164 Ind.) — +chromo, blood, tissue
♂ 183-94-24-16=20g — t=2x1mm
5.1 mi SE Rayon, 1050 m, Chiapas, Mexico.

23 December (Dissd 24 Dec)

159609 | 1500 Peromyscus — +chromo, blood, tissue
♀ 210-108-24-18=24g — nulliparous

159610 | 1501 Peromyscus — +chromo, blood, tissue
♀ 243-126-26-19=44g — nulliparous

Pozo de Petroleo, 7 mi N (by rd.) Berriozabal, 950 m, Chiapas Mexico

20 December (Dissd 24 Dec

159511 | 1502 Hotylomys phyllotis — +chromo, blood, tissue
♀ 262+105+32-25=71g — nulliparous

Duke S. Rogers
1980

Catalogue (13)

Pozo de Petroleo, 7 mi N (by rd.) Berriozábal, 950 m.;
Chiapas; México.
20 December (Died 24 Dec.)

MVZ
159512 1503 Oligoryzomys phyllotis +chromo, blood, tissue
♀ 361-174-32-26=110g uteri swollen (slightly)

MVZ
159513 1504 Oligoryzomys phyllotis +chromo, blood, tissue
♀ 328-167-31-24=87g nulliparous

4 mi W (by rd.) San Cristobal, ca. 2300 m; Chiapas; México.
21 December (Died 24 Dec.)

159611 1505 Peromyscus +chromo, blood, tissue
♀ 209-107-21-18=28g emb. 2L, 1R

159612 1506 Peromyscus +chromo, blood, tissue
♀ 204-106-22-18=24g nulliparous

3.9 mi SE (by rd) Bochil, ca. 1200 m., Chiapas; México.
22 December (Died 24 Dec.)

159613 1507 Peromyscus +chromo, blood, tissue
♂ 168+58+24-19=46g +=9x5mm

159614 1508 Peromyscus +chromo, blood, tissue
♀ 250-123-24-19=41g embs, 1R, 2L=3mm

5.1 mi SE (by rd.) Rayon, ca. 1050 m, Chiapas; México.
23 December (Died 24 Dec.)

159520 1509 Reithrodontomys +chromo, blood, tissue
♀ 198-115-19-18=11g nulliparous

159521 1510 Reithrodomys +chromo, blood, tissue
♀ 194-116-13-16=13g

159500 1511 Reithrodontomys Oryzomys fulvescens +chromo, blood tissue
♂ 179-106-20-13=13g +=2x1mm

Duke S. Rogers
1980

Catalogue (14)

3.5 mi. SE (by rd.) Rayon, ca. 1000 m., Chiapas, México.
23 December (Died 24 Dec.)

159615 1512 Peromyscus zarhynchus + tissue, skel. only
♂ 287-148-31-23=57g scar; 1L

159616 1513 Peromyscus zarhynchus + tissue, skel. only
♀ 260-143-31-21=43g nulliparous

3.9 mi SE (by rd.) Bochil, ca. 1200 m, Chiapas; México.
22 December (Died 24 Dec.)

159617 1514 Peromyscus oaxacensis skel. only, + tissue
♀ 248-132-26-19=40 post part. scars, 2R, 2L

~~159618 1515 Peromyscus~~

4 mi. W (By rd.) San Cristobal, ca. 2300 m, Chiapas, México
21 December (Died 24 Dec)

159618 1515 Peromyscus boylii ~~skel. only~~ + tissue
♀ 208-104-23-20=27g nulliparous

159619 1516 Peromyscus boylii + tissue
♂ 200-104-23-18=26g t=6x4mm

3.5 mi SE (by rd) Rayon, ca. 1000 m.; Chiapas; México.
23 December (Died 24 Dec.)

159620 1517 Peromyscus zarhynchus + tissue
♀ 293-159-31-22=62g nulliparous

159621 1518 Peromyscus zarhynchus + tissue
♀ 298-155-32-23=64g scars; 2R, 3L

159622 1519 Peromyscus zarhynchus + tissue, skel. only
♀ 280-148-31-21=55g nulliparous

159623 1520 Peromyscus zarhynchus + tissue, skel. only
♀ 251-137-32-22=46g

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Catalogue

3.9 mi: SE (by rd.) Bachil, ca. 1200 m., Chiapas, México.

22 December (Died 25 Dec.)

MVZ
159624 1521 *Peromyscus* — +blood, tissue

♀ 247-128-27-20 = 42g — 1 emb = 4mm; 2 swellings IR, IL

4 mi: W (by rd.) San Cristobal, ca. 2300 m., Chiapas, México.

23 December (Died 25 Dec.)

159625 1522 *Peromyscus boylii* — + skeleton only

♀ 198-106-22-19 = 21g — 9 scars, 2R, 2L

5.1 mi: SE (by rd.) Rayon, ca. 1050 m., Chiapas, México.

27 December (Died 25 Dec.)

159626 1523 *Peromyscus* — +tissue, blood

♀ 223-117-25-19 = 35g — nulliparous

159627 1524 *Peromyscus zarhynchus* — +tissue, blood

♀ 261-143-30-22 = 42g — nulliparous

159628 1525 *Peromyscus zarhynchus* — +tissue, blood

♀ 279-145-31-25 = 51g — nulliparous

159629 1526 *Peromyscus* — +tissue, blood

♀ 231-115-25-19 = 36g — nulliparous

3.5 mi: SE (by rd.) Rayon, ca. 1000 m., Chiapas, Mexico. 23 December (Died 25 Dec.)

159630 1527 *Peromyscus zarhynchus* — +tissue

♂ 267-138-32-22 = 42g — t = 4x2 mm

159631 1528 *Peromyscus zarhynchus* — +tissue

♂ 292-151-32-23 = 57g — t = 9x5 mm

159632 1529 *Peromyscus zarhynchus* — +tissue

♂ 298-157-33-23 = 58g — t = 9x5mm

159633 1530 *Peromyscus zarhynchus* — +tissue

♂ 292-158-33-23 = 58g — t = 9x5 mm

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1980

Catalogue

3.5 mi E (by rd.) Rayon, ca. 1000 m., Chiapas, Mexico

23 December (125 Dec) dtd

MVZ		
159634	1531 *Peromyscus zarhynchus*	+tissue
	♂ 271-142-33-21 = 43g	t = 4x2mm
159635	1532 *Peromyscus zarhynchus*	+tissue
	♂ 283-151-33-22 = 48g	t = 4x2mm
159636	1533 *Peromyscus zarhynchus*	+tissue
	♂ 268-137-33-23 = 48g	t = 4x2mm
159637	1534 *Peromyscus zarhynchus*	+tissue
	♂ 283-148-31-24 = 49g	t = 4x2mm
159638	1535 *Peromyscus zarhynchus*	+tissue
	♂ 261-138-32-22 = 36g	t = 4x2mm
159639	1536 *Peromyscus zarhynchus*	+tissue
	♀ 253-136-32-21 = 38g	nulliparous
159640	1537 *Peromyscus zarhynchus*	+tissue
	♀ 273-142-32-23 = 50g	nulliparous
159641	1538 *Peromyscus zarhynchus*	+tissue
	♂ 282-147-33-23 = 58g	t = 8x4mm
159642	1539 *Peromyscus zarhynchus*	+tissue
	♀ 270 +143+ 31-22 = 47g	nulliparous
159643	1540 *Peromyscus zarhynchus*	+tissue
	♂ 298-159-32-24 = 48g	t = 6x4mm
159644	1541 *Peromyscus zarhynchus*	+tissue
	♀ 286-148-33-24 = 60g	scars, 2R, 3L
159645	1542 *Peromyscus zarhynchus*	+tissue
	♂ 286-156-32-22 = 44g	t = 4x2mm

Duke S. Rogers
1980

Catalogue (17)

3.5 mi SE (by rd.) Rayon, ca. 1000 m., Chiapas, México.

23 December (Died 25 Dec.)

MVZ		
159646	1543 *Peromyscus zarhynchus*	skeleton only
	♂ 283-153-32-23 = 48 g	t = 5×2 mm

8.5 mi ENE (by rd.) Sontecomapan, 25 m., Veracruz, México

27 December

159481	1544 *Heteromys*	+ chromo, bloody tissue
	♀ 217+78+35-18 = 69 g	uteri swollen, no scars
159482	1545 *Heteromys*	+ chromo, blood, tissue
	♀ 259+120+39-18 = 70 g	nulliparous
159483	1546 *Heteromys*	+ chromo, blood, tissue
	♂ 304-172-37-19 = 80 g	18×12 t = [illegible] mm
159647	1547 *Peromyscus mexicanus*	+ chromo, blood, tissue
	♂ 240-116-25-20 = 43 g	t = 16×8 mm
159648	1548 *Peromyscus mexicanus*	+ chromo, blood, tissue
	♂ 218-115-26-19 = 42 g	t = 14×7 mm
159649	1549 *Peromyscus mexicanus*	+ chromo, blood, tissue
	♀ 228+110+26-19 = 45 g	emb; 2R, 1L; CR = 12 mm
159731	1550 *Sigmodon hispidus*	+ blood, tissue
	♀ 199-81-24-17 = 37 g	nulliparous
159650	1551 *Peromyscus mexicanus*	+ blood, tissue
	♂ 233-114-25-19 = 50 g	t = 17×9 mm
159651	1552 *Peromyscus mexicanus*	+ blood, tissue
	♂ 227-111-26-19 = 46 g	t = 15×9 mm
159652	1553 *Peromyscus mexicanus*	+ blood, tissue
	♀ 232-115-25-19 = 40 g	nulliparous

Duke S. Rogers
1980

(18)

Catalogue

8.5 mi ENE (by rd.) Sontecomapan, 25 m., Veracruz Mexico

27 December

MVZ
159653 1554 *Peromyscus mexicanus* + blood, tissue
♂ 241-117-26-20=54g

Playa Escondida, 8.2 mi ENE (by rd.) Sontecomapan, Veracruz, México.

28 December

15-9464 1555 *Heteromys* + blood, tissue
♀ 251-132-34-18=54g swollen, no scars

159465 1556 *Heteromys* + blood, tissue
♀ 269-146-37-19=55g nulliparous

159466 1557 *Heteromys* + blood, tissue
♀ 187+74+34-18=37g nulliparous

159467 1558 *Heteromys* + blood tissue
♂ 251-131-35-18=50g t=6x4mm

159468 1559 *Heteromys* + blood tissue
♀ 309-167-37-19-68g nulliparous

15-9469 1560 *Heteromys* + blood tissue
♂ 209-105-32-16=29g t=4x3mm

159470 1561 *Heteromys* + blood, tissue
♀ 304-160-35-19=84g Embs; 2R, 2L

159471 1562 *Heteromys* + blood, tissue
♂ 271-152-35-18=51g t=7x4mm

15-9472 1563 *Heteromys* + blood, tissue
♀ 220+104+34-18=39g nulliparous

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Catalogue (19)

Playa Escondida, 8.2 mi ENE (by rd.) Sonteconapan, 25 m.;
@ Veracruz, México
28 December

MVZ		
159473	1564 *Heteromys*	+blood, tissue
	♀ 228-118-33-16=32g	nulliparous
159474	1565 *Heteromys*	+blood, tissue
	♀ 230+99+36-17=60g	nulliparous
159475	1566 *Heteromys*	+blood, tissue
	♀ 265+132+35-17=67g	embs, 1R, 1L=13mm

8.8 mi SE (by rd.) Catemaco, 50 m., Veracruz, Mexico
29 December

	Liomys pictus	
159456	1567 ~~*Heteromys*~~	+chromo, blood, tissue
	♂ 243-125+30-16=57g	t= 23x19mm

9.5 mi SE (by rd.) Catemaco, 50 m., Veracruz, Mexico

159462	1568 *Heteromys*	+chromo, blood, tissue
	♂ 299-166-37-19=82g	t=20x12mm

8.5 mi ENE (by rd.) Sonteconapan, 25 m., Veracruz, México
27 December (Died 29 Dec)

159484	1569 *Heteromys*	+chromo, blood, tissue
	♀ 288-153-37-18=64g	nulliparous
159485	1570 *Heteromys*	+chromo, blood, tissue
	♀ 283+147+35-19=60g	notched, uterus small, no scars
159486	1571 *Heteromys*	+chromo, blood, tissue
	♀ 249-147-34-18=62g	embs, 1R, 2L CR=5mm

Playa Escondida, 8.2 mi ENE (by rd.) Sonteconapan, 25 m., Veracruz, México
28 December (Died 29 Dec)

159487	1572 *Heteromys*	+chromo, blood, tissue
	♀ 192+63+35-19=65g	embs; 1R, 2L CR=6mm

Duke S. Rogers
1980

Catalogue

9.5 mi SE (by rd.) Catemaco, 50 m.; Veracruz; Mexico.

29 December

mvz 159654	1573 *Peromyscus mexicanus*	+chromo, blood, tissue
	♀ 239-123-26-19 = 39g	scars, 4R, 1L
159655	1574 *Peromyscus mexicanus*	+chromo, blood, tissue
	♂ 243-121-26-20 = 46g	t = 14x7mm
159656	1575 *Peromyscus mexicanus*	+chromo, blood, tissue
	♀ 209-95-26-19=29g	nulliparous
159657	1576 *Peromyscus mexicanus*	+chromo, blood, tissue
	♀ 239-118-28-20=42g	scars; 3R, 1L
159658	1577 *Peromyscus mexicanus*	+ Chromo, blood, tissue
	♀ 227-113-27-20=37g	nulliparous
159659	1578 *Peromyscus mexicanus*	+chromo, blood, tissue
	♂ 238-118-26-19=42g	t=12x7mm

8.8 mi SE (by rd) Catemaco, 50 m.; Veracruz, México.

29 December (Died 30 Dec.)

159732	1579 *Sigmodon hispidus*	skel. only +blood, tissue
	♂ 223-85-19-16=62g	t=14x8mm
159660	1580 *Peromyscus mexicanus*	skel. only +tisse, blood
	♂ 204-99-26-19=28g	t=6x4mm
159661	1581 *Peromyscus mexicanus*	+tissue, blood
	♂ 236-118-26-20=42g	t=16x9mm
159662	1582 *Peromyscus mexicanus*	skel. only +blood, tissue
	♂ 235-118-26-19=40g	t=19x9mm
159663	1583 *Peromyscus mexicanus*	+blood tissue
	♂ 233+114+26-19=44g	t=17x9mm

Duke & Rogers
1980

Catalogue

8.8 mi SE (by rd.) Catemaco, 50 m, Veracruz, Mexico

29 December (Died 30 Dec.)

MVZ		
159664	1584 *Peromyscus mexicanus*	skel. only + blood, tissue
	♀ 205+96+25-19=31g	nulliparous
159665	1585 *Peromyscus mexicanus*	skel only, + blood, tissue
	♂ 253-129-28-22=44g	t=16x9mm
159666	1586 *Peromyscus mexicanus*	+ blood, tissue
	♀ 240-117-26-20=42g	swellings, 1R, 1L
159667	1587 *Peromyscus mexicanus*	skel only + blood, tissue
	♀ 211-113-25-20=34g	nulliparous
159668	1588 *Peromyscus mexicanus*	skel only + blood, tissue
	♂ 222-109-26-19=34g	t=13x7mm
159669	1589 *Peromyscus mexicanus*	skel only, + blood, tissue
	♂ 228-109-25-20=33g	t=15x8mm
159670	1590 *Peromyscus mexicanus*	skel. only
	♀ 222-113-26-20=35g	nulliparous

Playa Escondida, 8.2 mi ENE (by rd.) Sontecomapan, 25 m.,
Veracruz, México.

27 December (Died 30 Dec)

159671	1591 *Peromyscus mexicanus*	+ blood, tissue
	♀ 253-129-27-22=40g	scars, 1R, 2L
159672	1592 *Peromyscus mexicanus*	Skel only + blood tissue
	♀ 193-94-25-19=23g	nulliparous

28 December (Died 30)

159476	1593 *Heteromys*	~~skel only~~ + blood, tissue
	♀ 297-156-36-19=67g	notched, uterus swollen, no scars
159477	1594 *Heteromys*	+ blood, tissue
	♂ 293-155-38-18=78g	t=23x13mm

Duke S. Rogers
1988

Catalogue (22)

Playa Escondida, 8.2 mi ENE (by rd.) Sorteconapan, 25m, Veracruz, México.

28 December (Died 30 Dec)

159478 1595 *Heteromys* — +blood, tissue
♂ 265-139-36-18=56g — t=10x5mm

159479 1596 *Heteromys* — +blood, tissue
♀ 267-147-36-19=50g — nulliparous

159673 1597 *Peromyscus mexicanus* — Skel only +blood, tissue
♀ 212-117-25-19=27g — nulliparous

159674 1598 *Peromyscus mexicanus* — +blood, tissue
♀ 248-122-27-21=42g — uteri swollen, no scars, notched

159675 1599 *Peromyscus mexicanus* — +blood, tissue
♂ 238-116-26-20=47g — t=17x10mm

8.5 mi ENE (by rd.) Sorteconapan, 25m., Veracruz, México.

27 December (Died 30 Dec.)

159676 1600 *Peromyscus mexicanus*
♂ 240-113-28-20=41g — t=15x9mm

Ojo de Agua, ca. 500m., Veracruz, Mexico

31 December

159455 1601 *Rhogeëssa tumida* wt=4g — +tissue
♂ 76-29-7-12-tr=6 — t=2x1.5mm forearm=31mm
Myotis nigricans

159449 1602 *Rhogeëssa tumida* wt=4g — +tissue
159450 ♀ 85-39-8-12, tr=6 — forearm=37mm
↓ 1603 *Myotis nigricans* wt=4g
♂ 81-37-7-11, tr=6 — t=2x1.5mm forearm=36mm

159451 1604 *Myotis nigricans* wt=3g
♂ 74-35-8-12, tr=6 — skel. only t=2x1.5mm forearm=34mm

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1980-81

Catalogue (23)

Ojo de Agua, ca 500m, Veracruz, Mexico.

31 December

MVZ		
159452	1605 *Myotis nigricans*	nulliparous
	♀ 76-38-8-13, tr=7 wt=4g	forearm=38mm
159453	1606 *Myotis nigricans*	skel. only
	♂ 77-36-7-12 tr=6 wt=3g	t=2x1mm forearm=35mm
159454	1607 *Myotis nigricans*	skel only
	♀ 78-37-7=12 tr=6 wt=4g	nulliparous forearm=37mm

1 January

159677	1608 *Peromyscus mexicanus*	
	♀ 223-118-26-20=40g	4scars, 2L
159678	1609 *Peromyscus mexicanus*	skel. only
	♀ 251-128-25-21=46g	lactating, 5scars, 2L, 2R
159679	1610 *Peromyscus mexicanus*	
	♀ 242-121-26-20-46g	lactating; scars 1R, 1L
159680	1611 *Peromyscus mexicanus*	skel. only
	♂ 208+90t25-21=43g	t=16x9mm
159681	1612 *Peromyscus mexicanus*	
	♂ 235-107-26-20=40g	t=15x9mm
159682	1613 *Peromyscus mexicanus*	
	♂ 223-110-26-21=40g	t=13x10mm
159683	1614 *Peromyscus mexicanus*	skel. only
	♂ 229-114-26-21=41g	t=16x9mm
159684	1615 *Peromyscus mexicanus*	skel. only
	♂ 238-119-27-21=42g	t=20x11mm
159685	1616 *Peromyscus mexicanus*	skel. only
	♂ 223-119-27-22=43g	t=16x9mm

Duke S. Rogers
1780

Catalogue (24)

Ojo de Agua, ca. 500 m., Veracruz; México.

1 January

MVZ			
159686	1617	*Peromyscus mexicanus*	skel. only
	♂	226-117-27-22 = 46g	t=16x9mm
159687	1618	*Peromyscus mexicanus*	
	♀	240-119-26-23 = 41g	embs, 2R
159688	1619	*Peromyscus mexicanus*	skel. only
	♂	228-114-26-21 = 35g	t=11x7mm
159689	1620	*Peromyscus mexicanus*	skel. only
	♀	227-117-27-21 = 38g	3 scars, 2R, 1L
159690	1621	*Peromyscus mexicanus*	skel. only
	♀	238-120-27-22 = 39g	uteri swollen
159691	1622	*Peromyscus mexicanus*	skel. only
	♀	232-118-26-20 = 34g	lactating, scars 1R, 1L
159692	1623	*Peromyscus mexicanus*	+tissue
	♂	238-113-26-20 = 35g	t=15x9
159693	1624	*Peromyscus mexicanus*	+tissue
	♂	245-118-27-21 = 44g	t=16x9mm
159694	1625	*Peromyscus mexicanus*	+tissue
	♂	232-120-26-21 = 34g	t=14x8mm
159695	1626	*Peromyscus mexicanus*	+tissue
	♂	231-116-27-21 = 36g	t=13x8mm
159696	1627	*Peromyscus mexicanus*	+tissue
	♂	236-120-26-22 = 36g	t=11x7mm
159697	1628	*Peromyscus mexicanus*	+tissue
	♀	238-113-27-21 = 34g	uteri swollen, no scars

Duke S. Rogers
1989

Catalogue

Ajo de Agua, ca. 500 m; Veracruz; México.

1 January

MVZ			
159698	1629	*Peromyscus mexicanus*	skel. only
		♂ → 250-133-27-21 = 36 gm	t = 5×3 mm
159699	1630	*Peromyscus mexicanus*	skel only
		♀ 248-129-26-22 = 36 g	uteri swollen, no scars
159700	1631	*Peromyscus mexicanus*	skel. only
		♂ → 218-111-26-20 = 31 g	t = 7×4 mm
159701	1632a	*Peromyscus mexicanus*	skel. only
		♀ 243-124-27-22 = 42 g	milkpapules

Playa Escondida, 8.2 mi. ENE (by rd.) Sontecomapan, Veracruz; Mexico.

28 December (Died 2 Jan.)

159480	1632b	*Heteromys*	(several hrs old) + tissue
		♀ 260+121+35-18	no scars

Ajo de Agua, ca. 500 m.; Veracruz; México.

1 January (Died 2 Jan.)

159702	1633	*Peromyscus mexicanus*	skel. only.
		♂ → 223-113-27-21 = 33 g	t = 15×8 mm
159703	1634	*Peromyscus mexicanus*	skel. only
		♂ → 241-121-27-21 = 39 g	t = 15×8 mm
159704	1635	*Peromyscus mexicanus*	2 embs = 1R, 1L = 19 mm
		♀ 231-125-26-21 = 33 g	
159705	1636	*Peromyscus mexicanus*	
		♂ 233-123-28-20 = 34 g	t = 16×9 mm
159706	1637	*Peromyscus mexicanus*	
		♂ 251-128-27-21 = 41 g	t = 17×11 mm

Duke & Rogers
1989

Catalogue (26)

Ojo de Agua, ca. 500 m., Veracruz; México.
1 January (Died 2 Jan.)

MVZ
159707 1638 Peromyscus mexicanus
♂ 228-120-26-20 = 35g t=15x8mm

159708 1639 Peromyscus mexicanus
♂ 238-119-28-21 = 44g t=20x11mm

159709 1640 Peromyscus mexicanus
♂ 231-120-27-21 = 36g t=15x10mm

159710 1641 Peromyscus mexicanus
♀ 228-121-26-21 = 31g nulliparous

159711 1642 Peromyscus mexicanus
♂ 237-118-26-21 = 39g t=18x11mm

Vista Hermosa, 1000 m; Distrito Ixtlán, Oaxaca; Mexico
3 January

159494 1643 Oryzomys candaten (several hrs old)
♀ 206-113-25-16 = 24g + tissue
old scars, 2R, 1L

Ojo de Agua, ca. 500 m., Veracruz, Mexico.
1 January (Died 3 January)

159712 1644 Peromyscus mexicanus
♀ 224-117-26-21 = 31g nulliparous, uteri swollen

159713 1645 Peromyscus mexicanus
♀ 219-106-26-22 = 31g notched, no scars

159714 1646 Peromyscus mexicanus
♂ 233-121-26-21 = 33g t=12x8mm

159715 1647 Peromyscus mexicanus
♂ 231-117-27-21 = 37g t=14x8mm

Duke S Rogers
1981

Catalogue (27)

Ojo de Agua, ca. 500m; Veracruz; México.

(January (Died 3 Jan.)

MVZ
159716 1648 Peromyscus mexicanus — ears, HF, TL = 29mm

♀ 257-132-37-21 = 50g

159717 1649 Peromyscus mexicanus — skel. only

♂ 237+116+27-22 = 40g — t = 15x8mm

159718 1650 Peromyscus mexicanus — skel. only

♀ 237-126-28-21 = 32g — uteri swollen, no sons.

Vista Hermosa, 1000m; Distrito Ixtlán, Oaxaca; México.

3 January

159495 1651 Oryzomys candatus — + tissue

♂ 240-130-25-17 = 32g — t = 5x3mm

159496 1652 Oryzomys candatus — + tissue

♂ 232-127-26-17 = 27g — t = 5x3mm

3 January (Died 4 Jan.)

159719 1653 Peromyscus mexicanus — (several hrs old) tissue

♂ 218-111-27-19 = 28g — t = 4x2mm

159720 1654 Peromyscus mexicanus — (several hrs old) + tissue

♂ 207-105-27-20 = 26g — t = 4x2mm

159721 1655 Peromyscus mexicanus — several hrs old + tissue

♂ 206-105-26-17 = 20g — t = 4x2mm

5.2 mi NNE (by rd.) El Machin, ca 2600m; Distrito Ixtlán, Oaxaca; México.

Leptus 4 January 69.

159722 1656 Peromyscus melanocarpus — (several hrs old) + tissue

♀ 195-101-28-20 = 21g — nullipara

leptus

159723 1657 Peromyscus melanocarpus — + tissue

♀ 250-126-28-21 = 36g — nullipara

Duke & Rogers
1981

Catalogue

5.2 mi NNE (by rd.) El Machin, ca. 2600 m. Distr. to Ixtlán, Oaxaca; México.

4 January

MVZ

159724 1658 *Peromyscus leptus melanocarpus* + tissue

♂ 228-120-28-22 = 29g t = 3x2 mm

159725 1659 *Peromyscus leptus melanocarpus* + tissue

♂ 268-145-29-22 = 34g t = 5x2 mm

159726 1660 *Peromyscus leptus melanocarpus* + tissue

♀ 244-131-27-23 = 33g nulliparous

159727 1661a *Peromyscus leptus melanocarpus*

♂ 258-128-30-22 t = 5x3 mm

Vista Hermosa, 1000 m.; Distrito Ixtlán, Oaxaca; México.

3 January (Died 5 Jan.)

159497 1661b *Oryzomys candelatus* + tissue, body skel.

♀ 194-114-25-15 = 17g nulliparous

3.5 mi SE (by rd.) Rayon, ca. 1000 m.; Chiapas; México.

23 December 1980 (Died 5 January 1981)

159461 1662 *Heteromys* t = 9x6 mm (several hr old)

♂ 303-171-39-18 = 53g + tissue

Ojo de Agua, ca. 500 m, Veracruz, Mexico.

1 January (Died 5 Jan.)

159463 1663 *Heteromys* (several hr old) + tissue

♀ 282-160-36-17 = 48g nulliparous

Vista Hermosa, 1000 m.; Distrito Ixtlán, Oaxaca; Mexico.

3 January (Died 5 Jan.)

159498 1664 *Oryzomys candelatus* (several hr old) + tissue

♀ 207-107-26-17 = 25g nulliparous

Duke S Rogers
1981

Catalogue (29)

Vista Hermosa, 1000m, Distrito Ixtlan, Oaxaca; México.

3 January (Died 5 Jan)

MVZ
159499 1665 Oryzomys candelaria (several hrs old) + tissue
♀ 227-119-27-17 = 28g scars, 2R, 1L, lactating

5.2 mi NNE (by rd.) El Machin, ca. 2600m, Distrito Ixtlan, Oaxaca, México.

4 January (Died 5 Jan.)

159728 1666 Peromyscus thomasi (several hrs old) + tissue
♂ 301-164-27-22 = 50g t=12x7mm

159729 1667 Peromyscus leptonyx melanocarpus (several hrs old) + tissue
♂ 234-120-29-21=21g t=3x2mm
Died 6 Jan.

159730 1668 Peromyscus thomasi (several hrs. old) + tissue
♂ 280+133+31-23=52g t=12x9mm

3.9 mi SE (by rd.) Bochil, ca. 1200m, Chiapas; México.

22 December 1980 (Died 9 Jan. 1981)

1669 Peromyscus oaxacensis (several hrs old.) + tissue
♀ 242-123-27-19 born 25 Dec. lactating w 2 [illegible]

13.5 mi NW (by rd.) Motozintla de Mendoza, Cerro Mozotal, 2800m.
Chiapas; Mexico

15 December 1980 Died 4 Feb. 1981

1670 Heteromys oreocori partial skeleton only + blood, tissue, chromo, sperm, glans.
♂ 339-190-42-22 = 60g t = 22x14mm

Pozo de Petroleo, 7mi N (by rd.) Berriozábal, 950m., Chiapas; México

19 December 1980 (Died 4 March 1981)

1671 Heteromys + partial skel + chromo, tissue, blood
♀ 331-189-38-19 = 90g uteri not swollen
Died 3 Feb. 1981

1672 Heteromys + partial skel + glans, tissue, sperm
♂ 266+119+37-18=66g t = 24x13

Duke S. Rogers
1981

Catalogue

3.5 mi SE (by rd.) Rayon, ca. 1000 m., Chiapas, Mexico.

23 December 1980 (Died 20 Jan)

1673 Heteromys + partial skel + chromo, blood, tissue
♀ 258+121+38-19=62g

8.5 mi ENE (by rd.) Sontecomapan, 25 m., Veracruz, Mexico.

27 December 1980 (Died 8 Feb.)

1674 Heteromys + partial skel + chromo, blood, tissue
glans sperm
♂ → 306-159-38-18=100g t=22X15mm

Playa Escondida, 8.2 mi ENE (by rd.) Sontecomapan, 25 m., Veracruz, México.

28 December 1980
Died 19 June 1981

1675 Heteromys + partial skeleton
♀ 304-159-37-19=72g uteri slightly swollen
+ chromo, blood, tissue

Died 27 March

1676 Heteromys skeleton only
♂ → 292-156-37-18=94g + blood, chromo, glans, tissue
t=21X14mm

Died 29 March

1677 Heteromys + glandes
♂ 311-168-38-19=66g Skeleton only

9.5 mi SE (by rd.) Catemaco, 50m.; Veracruz; Mexico.

29 December 1980 (Died 27 Feb. 1981)

1678 Heteromys + partial skel + Chromo, tissue, blood, glandes, sperm
♂ → 299-163-38-18=80g t=22X11mm

Ojo de Agua, ca. 500 m.; Veracruz, Mexico.

1 January (Died 18 Jan.)

glans sperm
1679 Heteromys + partial skel + chromo, blood, tissue
♂ → 308-176-37-19=59g scrotal, t=20X11mm

Died 29 March

1680 Heteromys + tissue (several/sold)
♀ 309-172-37-19=60g (Died 27 March 1981) skeleton only nulliparous

1681 Heteromys skeleton only + blood, chromo, tissue
♀ 282+140+39-19=68g uteri not swollen

Duke S. Rogers
1980

Catalogue (31)

Ojo de Agua, ca 500 m., Veracruz, México

1 January (Died 4 Feb.)

1682 Heteromys + partial skel + tissue

♀ 310-171-37-19 = 52g Died 29 Jan lactating mother of three young born ca. 16 Jan.

1683 Heteromys + chromo, blood, tissue

♀ 329-187-39-19 = 79g (Died 8 Feb.)

1684 Heteromys + partial skel + chromo, blood, tissue

♀ 308-170-36-19 = 65g

Vista Hermosa, 1000 m., Distrito Ixtlán, Oaxaca, México.

3 January Died 22 March (dead several hours)

1685 Heteromys + tissue, glans + body skel

♂ 358-194-41-20 = 69g Died 18 March 1981 t = 20×11

1686 Heteromys + blood, chromo, tissue, + partial skel

♀ 331-189-39-25 = 73g nulliparous

5.2 mi NNE (by rd.) El Machin, Distrito Ixtlán, Oaxaca, México.

4 January (Died 30 Jan) + partial skeleton

1687 Peromyscus thomasi + glans, sperm, chromo, blood, tissue

(liver tan)

♂ 315-174-32-21 = 68g animal stick t = 12×8mm

15.5 mi SE (by rd.) Mapastepec, 50 m., Chiapas, México.

12 December 1980

Died 3 April 1981

1688 Peromyscus gymnotis partial skeleton only + chromo, blood, tissue, glands

♂ 208-94-24-18 = 30g t = 14×8mm

Died 12 Feb. 1981

1689 Peromyscus gymnotis + partial skel + blood, tissue, chromo.

♀ 203-97-24-18 = 33g nulliparous

Died 7 April 1981

1690 Peromyscus gymnotis + partial skel + chromo, tissue, blood glands, sperm

♂ 212-110-25-18 = 37g t = 15×8 mm

Duke S. Rogers
1984

Catalogue

15.5 mi SE (by rd.) Mapastepec, 50 m, Chiapas; Mexico.

12 December 1980 Died 27 Feb. 1981

1691 *Peromyscus gymnotis* + partial shell
+ chromo., tissue, blood, glandes, sperm

♂ 216-113-23-18 = 32g t = 14x8 mm

10.8 mi NW (by rd.) Motozintla de Mendoza, Cerro Mozotal, 2450 m.,
Chiapas, Mexico.

13 December 1980 (Died 8 Feb.)

1692 *Peromyscus guatemalensis* + partial shell
+ chroma, blood, tissue, glans

♂ 258-135-30-26 = 59g t = 17x10 mm

13.5 mi NW (by rd.) Motozintla de Mendoza, Cerro Mozotal, 2800 m.,
Chiapas; México.

14 December 1980 Died 7 April 1981

1693 *Peromyscus guatemalensis* + partial shel + chroma, tissue, blood glandes, sperm

♂ 272-141-30-24 = 62g

Died 4 March 1981

1694 *Peromyscus guatemalensis* + partial shel
+ Chroma, glandes, blood, tissue

♂ 278-141-29-24 = 76g t = 18x11 mm

5.1 mi SE (by rd.) Rayon, ca. 1050 m, Chiapas; Mexico

23 December 1980 Died 18 March 1981

1695 *Peromyscus zarhynchus* + partial shel
+ blood, chroma, tissue, glans

♂ 306-162-33-27 = 70g t = 19x12 mm

3.5 mi SE (by rd.) Rayon, ca. 1000 m, Chiapas, Mexico.

23 December 1980
Died 18 May 1981

1696 *Peromyscus zarhynchus* + partial skeleton
+ blood, tissue, spleen

♀ 306-156-32-23 = 76g

Utr: not swollen

Died 18 Feb. 1981

1697 *Peromyscus zarhynchus* + partial shel
+ chroma, tissue, blood

♀ 293-146-38-24 = 70g

Duke S Rogers
1981

Catalogue

3.5 mi SE (by rd.) Rayon, ca. 1000 m., Chiapas, Mexico.

23 December 1980
(Died 4 May 1981)

1698 *Peromyscus zarhynchus* — ♦ partial skel only + chromo, blood, tissue

♀ 311-162-34-25 = 104 g — Died 19 June 1981

1699 *Peromyscus zarhynchus* — + partial skeleton + chromo, blood, tissue, glans + = 18X12 mm

♂ 291+148+33-24 = 67 g — Died 3 April 1981

1700 *Peromyscus zarhynchus* — + partial skel + chromo, blood tissue, glands + = 20X12 mm

♂ 304-157-33-25 = 84 g

3.9 mi NE (by rd.) Bochil, ca. 1200 m., Chiapas, México

22 December 1980 (Died 7 April 1981

1701 *Peromyscus oaxacensis* — + chromo, tissue, blood glandes, sperm + = 16X9

♂ 228+96+26-21 = 50 g

5.2 mi NNE (by rd.) El Machin, ca. 2600 m., Distrito Ixtlán, Oaxaca, Mexico.

4 January (Died 24 February)

1702 *Peromyscus leucurus melanocarpus* — + partial skeleton + chromo, blood, tissue, glandes + = 6X4 mm

♂ 240-121-27-19 = 41 g

1703 *Peromyscus leucurus melanocarpus* (Died 7 May 1981) — ~~partial~~ skeleton only

243-122-27-19 = 32 g — Died 4 May 1981

1704 *Peromyscus leucurus melanocarpus* — + partial skeleton only + chromo, blood, tissue

♂ 244-128-28-22 = 81 g

1705 *Peromyscus leucurus melanocarpus* — skeleton only

♂ 243-127-27-20 = 42 g

1706 *Peromyscus leucurus melanocarpus* — skeleton only

♂ 252-132-28-22 = 38 g

1707 *Peromyscus leucurus melanocarpus* (Died 18 May 1981) — + partial skeleton + blood, tissue, spleen

♂ 247-126-27-21 = 34 g — + = 12X7 mm

Duke S. Rogers
1981

Catalogue (34)

5.2 mi NNE (by rd.) El Machin, ca. 2600 m., Distrito Ixtlán, Oaxaca, México.

4 January (Died 1 Feb.)

1708 Peromyscus ~~melanocarpus~~ leptus + partial skel.

♀ 248-123-28-21 = 44g nullipárous

leptus (Died 29 March)

1709 Peromyscus ~~melanocarpus~~ part. skel only + chromo, blood, tissue

♀ 240+108+28-22 = 44g animal's back covered w some type of mange, spleen ca. 4x normal size, body organs tan color, blood thin, water-like

leptus (Died 4 May 1981) no scars

1710 Peromyscus ~~melanocarpus~~ + partial skeleton + chromo, blood, tissue

♂ 242-123-29-22 = 46g t=12x8 mm

leptus Died 19 June 1981

1711 Peromyscus ~~melanocarpus~~ + partial skeleton + chromo, blood, tissue, gl. mus.

♂ 249-120-27-21 = 50g t=11x8 mm

leptus Died 3 April 1981

1712 Peromyscus ~~melanocarpus~~ + partial ~~skel~~ skel only + chromo, blood, tissue

♀ 247-127-30-22 = 44g uteri not swollen

1713 Reithrodontomys ventral side dark-light tipped

♀ 206-122-20-17-8g

13.5 mi NW (by rd.) Motozintla de Mendoza, Cerro Mozotal, @2800 m.,

Chiapas; México.

14 December (Died 13 Jan. 1981)

1714 ~~Reithrodontomys~~ Reithrodontomys + chromo, tissue, blood

♀ 222-133-24-18 = 14g uteri swollen, no scars

16 December (Died 25 March 1981)

1715 Reithrodontomys + blood, tissue

♂ 227-133-24-19 = 36g t = 6x4

Pozo de Petroleo, 7 mi N (by rd.) Berriozabal, 950 m., Chiapas

Mexico

20 December 1980

1716 Scotinomys + partial body skel (several moulds)

Died 11 Jan. 1981 + tissue, body skel

♂ 132-53-19-13 = 6g t = 5x3 mm

Died 8 March 1981

1717 Scotinomys + partial skel

♂ 138-57-19-15 = 12g + blood, tissue, chromo

t = 3x2 mm

Duke & Rogers
1981

Catalogue

Pozo de Petroleo, 7 mi N (by rd.) Berriozábal, Chiapas; México, ca. 950 m., (35)

20 December 1980

1718 Peromyscus mexicanus — Died 3 April 1981 — + partial skel + chromo, blood, tissue
♀ 254-133-25-20 = 50g — uteri not swollen

1719 Peromyscus mexicanus — skel. only
♂ 242-121-26-19 = 26g — t = 9X5 mm

8.5 mi ENE (by rd.) Sonteconapan, 25 m., Veracruz; México,

27 December 1980 (Died 14 April 1981)

1726 Peromyscus mexicanus — + partial skeleton + chromo, blood, tissue
♀ 218 104-25-19 = 36g — uteri not swollen

Ojo de Agua, ca. 500 m., Veracruz; Mexico.

1 January (Died 25 June)

1721 Peromyscus mexicanus — + partial skel + chromo, blood, tissue
♂ 250-126-27-22 = 40g — scrotal, t = 14X10 mm

(Died 22 Jan.)

1722 Peromyscus mexicanus — + partial skel + Chromo, tissue, blood
♀ 253-128-27-22 = 44g — uteri swollen

(Died 12 February)

1723 Peromyscus mexicanus — + partial skel
♂ 223-113-27-21 = 43g — t = 11X6 mm

(Died 4 May 1981)

1724 Peromyscus mexicanus — + chromo, blood, tissue partial skeleton only
♀ 240-122-28-21 = 40g

25.8 mi SW (by rd.) Tuxtepec, 100 m., Distrito [redacted], Tuxtepec
Oaxaca, México.

2 January

1725 Peromyscus mexicanus
♂ 258-122-27-20 = 27g — t = 14X7 mm

(Died 5 March 1981)

1726 Peromyscus mexicanus
♀ 240-119-29-21 = 43g — uteri not swollen skeleton only

Duke & Rogers
1981

Catalogue

(39)

Tuxtepec

25.8 mi. SW (by rd.) Tuxtepec, 100 m., Distrito [redacted], Oaxaca; México.

2 January (Died 29 Jan.)

1727 *Peromyscus mexicanus*
♂ 278-145-28-21=64g
+partial skel
+chroms, blood, tissue, glans

(Died 5 April)

1728 *Peromyscus mexicanus*
♂ 243-127-23-21 = 48g
+tissue +partial skel
t=17x10mm

Vista Hermosa, 1000 m., Distrito Ixtlán, Oaxaca; México

3 January (Died 18 May 1981)

1729 *Peromyscus mexicanus*
♂ 266-132-30-20-47g
+partial skeletn
+blood, tissue, spleen
t=16x10mm

(Died 20 February 1981)

1730 *Peromyscus mexicanus*
♀ 232-120-29-20=36g
uteri not swollen
+tissue
skeleton only

1731 *Peromyscus mexicanus*
♀ 239-128-27-21 = 19g
+body skel.
uteri swollen
+partial skel
+chroms, blood, tissue, glans

Died 19 June 1981

1732 *Peromyscus mexicanus*
♂ 268-133-29-21=63g
t=19x11mm
+partial skel
+chroms, blood, tissue

1733 *Peromyscus mexicanus*
♀ 263-132-27-20=61g
uteri not swollen

13.5 mi. NW (by rd.) Motozintla de Mendoza, Cerro Mozotal, 2800' Chiapas; Mexico.

13 December 1980

[redacted] (Died 14 April 1981)

1734 *Reithrodontomys*
♀ 163-89-19-15=7g
partial skeleton only
uteri not swollen

Duke S Rogers
1981

Catalogue

4 mi W (by rd.) San Cristobal, ca. 2300 m., Chiapas; México.
21 December 1980 (Died 25 June 1981)

1735 Reithrodontomys — +chromo, tissue
♂ 167-93-20-14=11 g — scrotal, t=7x5 mm

5.1 mi SE (by rd.) Rayon, ca. 1050 m, Chiapas; México.
23 December 1980 (Died 25 June 1981)

1736 Reithrodontomys — +chromo, tissue
♂ 163-89-19-15=10 g — t=7x4 mm

10.8 mi NW (by rd.) Motozintla de Mendoza, Cerro Mozotal, 2450 m., Chiapas; México.
13 December 1980 (Died 25 June 1981)

1737 Peromyscus boylii — partial skel only; +chromo, blood, tissue
♀ 144+45+21-20=33 g — uteri slightly swollen; partial skeleton only
(Died 4 May 1981)

1738 Peromyscus boylii — partial skeleton only; +chromo, blood, tissue
♂ 144+40+23-20=29 g — t=9x5 mm
Died 1 February 1981

1739 Peromyscus boylii — skeleton only
♂ 192-97-12-19=13 g — t=6x4 mm

Pozo de Petroleo, 7 mi N (by rd.) Berriozabal, ca. 950 m.; Chiapas; México
19 December 1980
Died 7 April 1981

1740 Otohylomys — +partial skel; +chromo, tissue, blood, glandes, sperm
♂ 325+152+33-25=1529 — t=10x6 mm
Died 8 March 1981

1741 Otohylomys — +chromo, tissue, blood
♀ 322+131+32-26=147 g — partial skel. only

[illegible]

Duke S. Rogers
1981

Catalogue

Ajo de Agua, ca 500 m., Veracruz; Mexico

(January ~~XX~~ (Died 4 Feb.)

1742 Heteromys
♂ 150-63-27-11=12g — Died 5 Feb.
+tissue, blood
+=4x3mm
young of DSR 1682 (born ca. 16 Jan.)

1743 Heteromys
♀ 138-57-25-11=16g
+tissue, ~~blood~~
young of DSR (born ca. 16 Jan.)

Costa Rica

(Died 18 Feb. 1981)

1744 Heteromys
♀ 281+137-39-19=79g — (Died 14 April 1981)
+chromo, blood, tissue
nulliparous
partial skeleton only

1745 Heteromys
♀ 313-164-39-18=87g
+chromo, blood, tissue
uteri not swollen

(Died 24 February 1981)

1746 Liomys salvini
♀ 168+48+25+14=44g — (Died 25 June 1981)
+chromo, blood, tissue

1747 Liomys salvini
♂ 165+39+27-14=54g
+chromo, blood, tissue
+=19x12mm

Died 14 April 1981

1748 Liomys irroratus
♂ 185+66+28-15=38g — Died 25 June 1981
+chromo, blood, tissue
+=15x10mm

1749 Liomys irroratus
♀ 161+48+30-15=38g
+chromo, blood tissue
uteri not swollen

Duke S Rogers
1981

Catalogue

2.2 mi N Soto la Marina, Tamaulipas; México

Coll. 22 Aug, died 30 Aug. 1981

2001 ♂ *Lionys irroratus* t=4x3mm 188-97-27-10 = X

26 mi W Ciudad Valles, San Luis Potosi; México

coll. 20 Aug, died 15 Sept.

2002 ♀ *Lionys irroratus* nulliparous +chromo, blood, tissue 229-118-28-15=38g

11.7 mi SE El Bejuco, Guerrero; México

Coll 9 Aug., died 15 Sept.

2003 ♂ *Lionys pictus* +chromo, blood, tissue 262-138-29-15=55g

1.7 mi S Cacahuatepec, 900 Ft., Oaxaca; México

coll. 12 Aug., died 23 Sept.

2004 ♀ *Peromyscus banderanus* uteri not enlarged +tissue 173+76+28-20

9.5 mi NW Melaque, Jalisco; México

coll. 21 July; died 15 October

2005 ♀ *Peromyscus perfulvus* +chromo, blood, tissue 246-129-22-18=42g

2006 " "

2.2 mi N Soto la Marina, Tamaulipas; México

Coll. 22 Aug., died 24 Sept.

2007 ♀ *Lionys irroratus* nulliparous 198-97-27-14=X +chromo, tissue, blood

2.1 mi E Talcocotan, Nayarit; México

coll. 16 July, died 24 Sept.

2008 ♀ *Lionys* uteri not swollen 238-118-26-13=X +chromo. blood tissue

~~2009 *Lionys irroratus*~~

Duke & Rogers
1981

Catalogue

2.2 mi N Soto La Marina, Tamaulipas, México.

coll. 22 Aug., died 15 Oct.

2010 ♀ *Lionys crinoratus* — uteri not swollen — + blood, chromo. tissue — 231-121-29-15 = 38g

1.8 mi N, 0.7 mi E Chilcoot, 5300 ft., Plumas Co. California

18 October 1981

2011 ♂ *Reithrodontomys megalotis* — t = 4 x 3 mm — nulliparous — + tissue — 123-57-19-16 = X

2012 ♀ " " — + tissue — 132-61-21-16 = X

1 mi E, 2 mi N Chilcoot, 5520 ft., Plumas Co., California

coll 18 Oct., died 21 Oct.

2013 ♂ *Peromyscus maniculatus* — + tissue — 158-74-21-16 = X

2014 ♀ " — + tissue — 154-68-21-18 = X

3.1 Km S (by rd.) Puerto del Aires, ca 2300m Veracruz; México

coll. 4 Nov., died 5 Nov.

2015 ♀ *Peromyscus thomasi* — 4 embs = 14 mm 3R, 1L — embs preserved in N2 — skull with body in formalin + tissue — 342-198-34-29 = 78g

Ojo de Agua, ca. 500m, Veracruz; México

coll. 3 Nov., died 6 Nov.

2016 ♀ *Peromyscus mexicanus* — uteri swollen — t = 4 x 3 mm — skull only — + tissue — 257+132+29-22 = 45g

2017 ♂ " " " — t = 10 x 6 mm — + tissue — 221-116-28-21 = 30g

2018 ♂ " " " — t = 7 x 4 mm — + tissue — 241-119-27-23 = 35g

2019 ♂ " " " — pelvis notched — + tissue — 213+97+27-23 = 38g

2020 ♀ " " — uteri not swollen — + tissue — 248-129-27-22 = 37g

2021 ♀ " " " — uteri not swollen, corpora hemorragica present — + tissue — 251-128-28-21 = 38g

2022 ♀ " " — nulliparous — + tissue — 242-123-28-23 = 41g

2023 ♀ " " — + tissue — 221-110-27-22 = 32g

2 Km S (by rd) Cuautlápan, base of Cerro Chico huaxtla, Veracruz; México

1500m

coll. 2 Nov., died 6 Nov

2024 ♂ *Peromyscus mexicanus* — scrotal, t = 12 x 8 mm — skull only — + tissue — 232+113+28-21 = 39g

Duke S. Rogers
1981

Catalogue

2 km S (by rd.) Cuautlapán, 1500m, Cerro Chicohuaxtla, Veracruz; México

coll. 2 Nov., died 6 November

scrotal, t=17X11mm
2025 ♂ Peromyscus mexicanus — skull only — +tissue 249+123+28-23=47g

Ojo de Agua, ca. 500m, Veracruz; México

coll. 3 Nov.; died 6 Nov.

3embs, 2L, 1R=4mm
2026 ♀ Sigmodon hispidus — skull only — skull only +tissue 220-94-29-17=49g

3.1 km S (by road) Puerto del Aires, 2300m, Veracruz; México

t=19X11 — coll. 7 November 1981
2027 ♂ Peromyscus thomasi — skel only — +tissue, sperm, glandes 336-190-36-29=98g

2028 ♀ Sorex — skel only — 97-28-12-3 =5g
uter: not swollen — coll 4 Nov. Died 7 Nov — +tissue
2029 ♀ Peromyscus — skel only — 211+93+23-22=X

● 7 Nov.

+tissue skull+body in alcohol
2030 ♂ Peromyscus — 191-94-24-18=17g
+tissue
2031 ♀ Microtus mexicanus — 134-30-21-14=18g

2 km S (by rd.) Cuautlapán, 1500m, Cerro Chicohuaxtla, Veracruz; México

coll 2 Nov., died 7 Nov.

nulliparous — +tissue
2032 ♀ Peromyscus mexicanus — skull only — 221-116-27-22=28g

3.1 km S (by rd.) Puerto del Aires, Veracruz; México (ca. 2300m.)

coll 7 Nov. died 8 Nov.

t=18X12mm — body skel — +tissue, glandes
2033 ♂ Peromyscus thomasi — 333-179-35-28=86g
uteri not swollen
2034 ♀ Peromyscus — skull only — 218-109-24-21=26g

2 km S (by rd.) Cuautlapán 1500m., Cerro Chicohuaxtla, Veracruz; México

coll 2 Nov. died 6 Nov.

t=6X4mm, scrotal — +tissue
2035 ♂ Oryzomys fulvescens — skel. only — 189-109-23-13=12g
t=7X4mm
2036 ♂ Microtus guatemalensis — skel. only — +tissue 113-15-18-11=16g

Duke & Rogers
1981

Catalogue

2 Km S (by rd.) Cuautlapan, 1500m, Cerro Chicahuaxtal, Veracruz; México

coll. 2 Nov., died 12 Nov.

nulliparous			+ tissue, chromo
2037 ♀ *Baiomys musculus*		+ partial skel	120-44-11-12 = 9g
nulliparous	"	" "	+ tissue, chromo
2038 ♀			112-42-12-12 = 7g
uteri not swollen			+ tissue, chromo
2039 ♀	"	" "	121+40+12-12 = 8g
t=8X5mm			+ tissue, chromo
2040 ♂ *Microtus guatemalensis*		" "	115-19-18-11 = 20g

Ojo de Agua, ca 500m, Veracruz; México

coll. 3 Nov., died 16 Nov.

t=7X4mm			+ tissue, chromo
2041. *Oryzomys melanotis*		+ partial skel	141+38-31-18 = 34g
t=5X3mm		coll 3 Nov., died 12 Nov.	+ tissue, chromo
2042 *Oryzomys*		"	218-112-25-16 = 20g
3.1 Km			

S Puerto del Aire, ca. 2300m, Veracruz; México

Coll 5 Nov., died 17 Nov.

uteri not swollen			+ tissue, chromo, blood
2043 ♀ *Reithrodontomys*		+ partial skel	204-124-22-17=12g

coll 7 Nov. died 17 Nov.

t=3X2mm			+ tissue chromo; blood
2044 ♂ *Reithrodontomys*		+ partial skel.	177-107-20-17 = 6g

2 Km S (by rd.) Cuautlapan, 1500m, Cerro Chicahuaxtlag, Veracruz; Mexico

coll. 2 Nov., died 17 Nov.

scrotal, t=8X5mm			+ tissue, chromo, blood
2045 ♂ *Reithrodontomys*		+ partial skel	170-97-20-14 = 8g

Big Creek, Hastings Natural History Reservation, Monterey Co, Calif.

coll 22 Nov., died 24 Nov.

t=8X5mm			+ tissue, blood
2046 ♂ *Peromyscus californicus*			224-123-25-23=24g
scrotal t=15X9mm			
2047 ♂ *Peromyscus boylii*			201-103-21-20=24g
3 embos; 1R, 2L = 8mm			
2048 ♀	"	"	212-105-21-19=22g
t=9X6mm			
2049 ♂ *Peromyscus truei*			190-100-21-23=22g
lact., uteri swollen			
2050 ♀	"	"	212-108-22-23=24g
t=9X6mm			
2051 ♂	"	"	208-110-23-23-24g
nulliparous			
2052 ♀ *Peromyscus boylii*			181+93+23-19=15g

Duke S. Rogers
1981

Catalogue

9.5 mi. NW Melaque, Jalisco, México

coll. 21 July, died 1 Dec. 1981

scrotal, t = 20x11 mm

+chromo, tissue, blood

2053 ♂ *Peromyscus perfulvus*

243-131-24 19 = 46g

Ojo de Agua, ca 500m, Veracruz, Mexico

coll 3 Nov. 1981, died 21 April 1982

+tissue

2054 ♀ *Peromyscus mexicanus*

232-122-27-22 = 32g

coll. 3 Nov. 1981, died 28 April 1982

+chromo, tissue

2055 ♂ *Peromyscus mexicanus*

236-120-28-21 = 31g

Duke S Rogers
1982

Catalogue

2.2 Km E (by rd.) La Trinidad de Dota, 2600 m., Prov. San José; Costa Rica

17 July

scars, 2L, 2R	+ tissue
2075 ♀ *Peromyscus nudipes*	252-127-29-22 = 40g
embs 3R, 2L, CR = 18mm	+ tissue
2076 ♂ " "	272-136-29-23 = 56g
swellings 2L, 2R = 5mm	+ tissue, spleen
2077 ♀ " "	270+130+30-23 = 60g
scrotal t = 15x10mm SV = 15mm	+ tissue
2078 ♂ " "	256-123-29-22 = 47g
t = 16x10mm	+ tissue
2079 ♂ " "	258-126-29-22 = 51g
t = 16x10mm; SV = 13mm	+ tissue
2080 ♂ " "	266-135-29-22 = 50g
t = 9x5mm	+ tissue
2081 ♂ " "	240-118-29-21 = 36g
embs 3R, 2L cr = 6mm	+ tissue
2082 ♀ " "	278-132-31-21 = 60g
scars, 2R-1L	+ tissue, + spleen
2083 ♀ " "	250+117+30-22 = 43g
t = 18x11mm. SV = 13mm	+ tissue, + spleen
2084 ♂ " "	277-144-31-23 = 58g
t = 5x3mm	+ tissue, + spleen
2085 ♂ " "	194+96+28-21 = 20g

Coll 17 July, died 18 July

t = 15x9 mm	+ tissue
2086 ♂ *Reithrodontomys*	237-140-27-16 = 24g
parous, embs 4x2mm	+ tissue
2087 ♀ *Oryzomys*	216-113-31-18 = 18g
embs, 3L	+ tissue
2088 ♀ *Reithrodontomys*	218-126-22-16 = 18g
nulliparous	+ tissue
2089 ♀ *Reithrodontomys*	189-115-23-15 = 9g
scars 2L, 2R	+ tissue
2090 ♀ *Peromyscus nudipes*	+ body skel. only 267-132-23-22 = 46g
uterus swollen, no scars	+ tissue, blood, chromo
2091 *Heteromys oresterus*	304-162-40-109 = 64g
embs, 2R, 2L	+ tissue, blood, chromo
2092 *Heteromys oresterus*	200+43+40-18 = 74g
scars, 1R, 2L	+ tissue
2093 ♀ *Reithrodontomys*	223-125-23-17 = 19g
t = 6x4mm	+ tissue
2094 ♂ *Oryzomys*	skel only 216-111-31-17 = 16g

Coll 18 July, died 19 July

Coll 18 July, died 20 July

scrotal, t = 24x15, SV = 30mm	+ chromo
2095 ♂ *Heteromys oresterus*	335-190-42-19 = 98g

Duke S Rogers
1982

Catalogue

La
2.2 mi E (by rd.) Trinidad de Dota, 2600 m, Prov. San José, Costa Rica

♀ t=5x3mm	Coll. 17 July, died 20 July	+ spleen + tissue, chromo
2096 ♂ Scotinomys t=11x6mm		126-50-18-12=9g + spleen, tissue, chromo
2097 ♂ Oryzomys t=5x3mm	Coll. 18 July, died 20 July	283+144+36-21=63g + spleen, tissue, chromo
2098 ♀ Reithrodontomys	Coll. 17 July, died 20 July body skel only	169-91-20-14=9g + spleen, tissue, chromo
♀ Oryzomys 2099 embs, 1L, 2R, CR=7mm t=13x8mm		317-162-36-21=68g + spleen, tissue, chromo
2100 ♂ Reithrodontomys t=5x3mm	Coll 18 July, died 20 July	231-136-25-16=20g + spleen, tissue, chromo
2101 ♂ Oryzomys nulliparous		143-63-20-14=8g + spleen, tissue, chromo
2102 ♀ Heteromys oresterus t=4x3mm		222+90+38-19=54g + spleen, tissue, chromo
2103 ♂ Scotinomys t=17x10mm		122-49-17-13=6g + spleen, tissue, chromo
2104 ♂ Peromyscus nudipes scars, 2L, 1R		259-128-28-22=52g + spleen, tissue, chromo
2105 ♀ Peromyscus nudipes t=13x8mm		252-122-28-22=38g + spleen, tissue, chromo
2106 ♂ Oryzomys nulliparous	Coll. 17 July, died 20 July	363+198+40-19=92g + spleen, tissue, chromo
2107 ♀ Heteromys oresterus t=6x4mm	Skull only	271-131-37-19=56g + spleen, tissue, chromo
2108 ♂ Reithrodontomys	Coll 18 July, died 20 July	178-102-20-18=9g + spleen, tissue, chromo
2109 ♂ " t=13x8mm		241-124-23-17=26g

Cerros de la Carpintera, 2 km S (by rd.) San Diego, 1450 m; Prov. San José, Costa Rica

2110 ♂ t=6x4mm Oryzomys	Coll 19 July, died 20 July	+ spleen, tissue, chromo 191-101-26-14=18g

La
2.2 mi E (by rd.) Trinidad de Dota, 2600 m, Prov. San José, Costa Rica

	Coll 17 July, died 20 July	
♂ t=6x4mm 2111 Reithrodontomys t=12x7mm	Coll. 18 July, died 20 July	+ spleen, tissue, chromo 216-125-24-16=16g + spleen, tissue, chromo
2112 ♂ Reithrodontomys t=5x3mm		213-121-24-16=19g + spleen, tissue, chromo
2113 ♂ Oryzomys		228-118-32-18=26g

Duke S. Rogers
1982

Catalogue

3.7 Km NNE (by rd.) Cañas, 150 m, Prov. Guanacaste, Costa Rica

22 July

♀ = 19×12 mm	+ tissue, + body skeleton
2114 ♂ Liomys salvini	232-120-27-14 = 50 g
♀ = 9×6 mm, SV = 7 mm	+ tissue, skeleton only
2115 ♂ " "	203-97-26-13 = 26 g
♀ = 20×12 mm, SV = 23 mm	+ tissue + body skeleton
2116 ♂ " "	258-127-24-17 = 64 g
♀ = 20×11 mm, SV = 40 mm	+ tissue + body skeleton
2117 ♂ " "	237+110+27-14 = 58 g

8 Km NNE (by rd.) Cañas, 300 m, Prov. Guanacaste, Costa Rica

22 July

♀ = 15×9 mm	+ tissue, body skeleton
2118 ♂ Liomys salvini	212-106-26-13 = 31 g
♀ = 8×5 mm	+ tissue, skeleton only
2119 ♂ " "	128+18+28-13 = 40 g

4.1 Km NE (by rd.) Tilarán, 650 m, Prov. Guanacaste, Costa Rica

23 July

embs 2L, 1R	+ tissue, body skel only
2120 ♀ Heteromys desmarestianus	258+111+46-17 = 81 g

5.0 Km NE (by rd.) Tilarán, 675 m, Prov. Guanacaste, Costa Rica

23 July

♀ = 8×5 mm	+ tissue, body skel
2121 ♂ Heteromys desmarestianus	238+134+35-16 = 52 g
♀ = 20×15 mm	+ tissue, body skel
2122 ♂ " "	303-164-36-19 = 84 g

4.1 Km NE (by rd.) Tilarán, 650 m, Prov. Guanacaste, Costa Rica

23 July

embs, 1L, 1R ca 15 mm CR	+ tissue, + body skel
2123 ♀ Heteromys desmarestianus	278-153-34-17 = 53 g
embs, 2R, 2L CR = 26 mm	+ tissue, skeleton only
2124 ♀ " "	228+132+36-19 = 78 g
♀ = 5×3 mm	skeleton only + tissue
2125 ♂ " "	228-123-35-15 = 30 g
parous	+ tissue + body skeleton
2126 ♀ " "	248+128+35-17 = 50 g

3.9 Km SE (by rd.) Playas del Coco, 100 m, Prov. Guanacaste, Costa Rica

24 July

uteri not swollen	+ tissue skeleton only
2127 ♀ Liomys salvini	174+56+26-14 = 42 g

Duke S. Rogers
1982

Catalogue

3.9 km S (by rd.) Playas del Coco, 50 m., Prov. Guanacaste, Costa Rica

24 July

nulliparous
2128 ♀ *Liomys salvini* + tissue, skel only
t=12×10mm 231-129-32-13 = 34g
2129 ♂ " " + tissue, skull only
162+48+28-14 = 44g

coll. 24 July, died 27 July

t= 18×10 mm + body skel + tissue, chromo, spleen
2130 ♂ *Liomys salvini* 238-118-27-14 = 44g
t= 18×10 mm + body skel + tissue, chromo, splech
2131 ♂ " " 248-122-29-15 = 46g
t=15×9mm + body skel + tissue, chromo, spleen
2132 ♂ " " 198+92+24-14 = 36g

4.6 ~~km~~ W (by rd) Escazu, 1250m, Prov. San José, Costa Rica

27 July

lactating ♀ skull+body inalc. + tissue, chromo
2133 ♀ *Sigmodon hispidus* 278-116-32-18 = 116g

4.1 Km NE (by rd.) Tilarán, 650 m., Prov. Guanacaste Costa Rica

embs 2R, 1L; CR = 11mm coll. 26 July died 27 Jul + body skel + blood, spleen, tissue, chromo
2134 ♀ *Heteromys desmarestianus* 248+108+34-19 = 75g

3.7 Km (by rd.) NNE Cañas, 150 m, Prov. Guanacaste, Costa Rica

coll. 22 July, died 27 July

nulliparous + tissue, spleen, chromo
2135 ♀ *Liomys salvini* skel only 209-114-27-14 = 30g
t=18×10mm + tissue, spleen, chromo
2136 ♀ " " Skel only 234-121-30-14 = 48g

4.1 Km NE (by rd.) Tilarán, 650 m, Prov. Guanacaste, Costa Rica

coll. 23 July, died 27 July

embs, 3L, 1R; CR = 3mm + chromo, spleen, tissue
2137 ♀ *Oryzomys* 203-101-25-16 = 25g

coll. 26 July, died 27 July

t = 22×14 mm + chrom, spleen, tissue
2138 ♂ *Heteromys desmarestianus* 340-190-37-18 = 85g

0.4 Km N (by rd.) Tilarán, 500 m, Prov. Guanacaste, Costa Rica

coll. 26 July, died 28 July

uteri not swollen + tissue, chromo
2139 ♀ *Liomys salvini* 209-109-28-14 = 29g

Duke S Rogers
1982

Catalogue

5.0 km NE (by rd.) Tilarán, 675 m, Prov. Guanacaste; Costa Rica

Coll. 23 July, died 28 July

nulliparous
2140 ♀ Heteromys desmarestianus — + tissue, chromo 278-143-38-18 = 40 g

4.1 km NE (by rd.) Tilarán, 650 m, Prov. Guanacaste, Costa Rica

Coll. 23 July, died 28 July

parous
2141 ♀ Heteromys desmarestianus — + tissue, chromo 317-170-37-18 = 56 g

Coll. 26 July, died 28 July

uteri swollen, no scars
2142 ♀ Heteromys desmarestianus — + tissue, chromo 331-189-40-19 = 73 g

2143 ♂ " " — + tissue, chromo. 268-141-36-18 = 39 g

8 Km NNE (by rd.) Cañas, 300 m, Prov. Guanacaste, Costa Rica

Coll. 22 July, died 28 July

nulliparous
2144 ♀ Liomys salvini — + tissue, skel only 166+58+27-13 = 36 g

5.0 km NE (by rd.) Tilarán, 675 m, Prov. Guanacaste; Costa Rica

Coll 23 July, died 28 July

t = 6×4 mm
2145 ♂ Heteromys desmarestianus — + tissue, skel only 278-148-36-17 = 48 g

3.9 km SE (by rd) Playas del Coco, 100 m, Prov. Guanacaste; Costa Rica

Coll. 24 July, died 28 July

t = 12×8 mm
2146 ♂ Liomys salvini — + tissue, skel only 234+117+28-13 = 30 g
nulliparous
2147 ♀ " " — + tissue, skel only 218-112-27-13 = 25 g

1.6 km W (by rd) Villa Colon, 750 m, Prov. San José, Costa Rica

1 August 1°

nulliparous
2148 ♀ Proechimys — +body skel — + tissue, blood, chromo, spleen 294-120-45-21 = 160 g

4.6 km W (by rd) Limón, 25 m, Prov. Limón, Costa Rica

Coll 31 July, died 1 August

nulliparous
2149 ♀ Proechimys — + tissue, blood, chromo, spleen 290-107-44-21 = 172 g
parous
2150 ♀ Heteromys desmarestianus — +body skel — + tissue, blood, chromo, spleen 258-128-36-17 = 70 g
t = 19×13, SV = 25 mm
2151 ♂ Heteromys " — + body skel — + tissue, blood, chromo, spleen 321-172-38-18 = 96 g

Duke S Rogers
1982

Catalogue

4.6 Km W Limón, 25 m, Prov. Limón, Costa Rica

coll. 31 July, died 1 Aug.

embs, 3L 2R, CR = 7mm
2152 ♀ Oryzomys
+body skel + spleen, tissue, chromo
224-92-27-16 = 54g

450m
Rio Reventazón, 5.6 Km SE (by rd.) Turrialba, Prov. Cartago Costa Rica

coll 30 July, died 1 August

nipples enlarged, no scars
2153 ♀ Heteromys desmarestianus
+body skel, chromo, tissue, blood spleen
313-168-37-18 = 64g
nipples enlarged, two scars
2154 ♀ " "
+body skel, chromo, tissue, blood, spleen
307-166-38-18 = 64g

= 4.6 Km W (by rd.) Limón, 25 m, Prov. Limon, Costa Rica

coll 31 July, died 1 August

nipples enlarged
2155 ♀ Heteromys desmarestianus
body skel + chromo, tissue, spleen
293+144+37-19 = 87g
t = NX 7mm
2156 ♂ Proechimys
skel only + tissue, blood
349-144-52-24 = 210g

1.6 Km W (by rd.) Villa Colon, 750 m., Prov. San José, Costa Rica

1 August

embs, 1R, 3L; CR = 20mm
2157 ♀ Sigmodon hispidus
+ tissue
294-127-35-20 = 148g

2.8 Km W (by rd.) Villa Colon 775m, Prov. San José, Costa Rica

1 August

~~268~~
uteri enlarged
2158 ♀ Sigmodon hispidus
+ tissue
261+83+37-22 = 138g

coll 1 August, died 2 August

t = 8x4mm
2159 ♂ Liomys salvini
+ tissue, skel only
178+68+30+12 = 32g
no scars
2160 " "
+ tissue, skel only
227-117-29-14 = 42g
no scars
2161 " "
+ tissue skel only
228-117-28-15 = 36g

Rio Reventazón
5.6 Km SE (by rd.) Turrialba, 450m, Prov. Cartago, Costa Rica

coll 30 July, died 2 August

t = 13+7mm
2162 ♂ Oryzomys
+ body skel + chromo, tissue, spleen
342-183-39-20 = 110g

(by rd)
4.6 Km W Limon, 25m, Prov. Limón, Costa Rica

~~216~~
coll 31 July, died 2 August

t = 21 x 13mm
2163 ♂ Heteromys desmarestianus
+ glans + tissue, body skel, chromo
300+163+37-18 = 96g

Duke S Rogers
1982

Catalogue

4.6 Km W (by rd.) Limón, 25m, Prov. Limón, Costa Rica

Coll 31 July, died 3 August

t = 20×14mm

2164 ♂ Heteromys desmarestianus — + repred. tract skel only; + tissue, chromo, 312-166-38-18 = 88g
swellings, 24, 25 = 5mm, nipples enlarged

2165 ♀ " — + tissue, chromo, skel only, 258-151-36-17 = 74g

Rio Reventazón, 5.6 Km SE (by rd.) Turrialba, 450m, Prov. Cartago, Costa Rica

Coll 30 July, died 3 August

notched, nipples enlarged, uterus not swollen

2166 ♀ Heteromys desmarestianus — + tissue, chromo, skel only, 315-165-36-18 = 74g
nulliparous

2167 ♀ Heteromys desmarestianus — + tissue, chromo, skel only, 306-163-37-17 = 68g

2.8 Km W (by rd.) Villa Colon, 775m, Prov. San José; Costa Rica

Coll. 1 August, died 3 August 1982

2168 ♀ Liomys salvini — 180-89-22-12 = 20g alcoholic

2169 ♀ " " — 175-83-22-12 = 19g alcoholic

2170 ♀ Proechimys semispinosus — alcoholic; 361-157-49-21 = 230g + chromo, blood, spleen, tissue

2171 ♂ " " — 251-100-40-19 = 82g

1.6 Km W (by rd.) Villa Colon, 750m, Prov. San José, Costa Rica

Coll 1 August, died 3 August

2172 ♂ Proechimys semispinosus — + chromo, spleen, blood, tissue; 367-153-52-23 = 242g

4.6 Km W (by rd) Limón, 25m, Prov. Limon, Costa Rica

Coll 31 July, died 3 August

2173 ♀ Heteromys desmarestianus — nulliparous; + body skel, chromo, spleen, tissue, 273-145-37-18 = 59g blood

2174 ♀ " " — nulliparous; 268-136-38-17 = 58g alcoholic

34.7 Km SE (by rd.) San Isidro, 525m, Prov. San José, Costa Rica

5 August

2175 ♂ Oryzomys — +=4×2; skel only + tissue; 128-56-23-12 = 82g

28 Km NE (by rd.) Palmar Norte, 50m, Prov. Puntarenas, Costa Rica

5 August

2176 Cuniculus paca — 461-24-107-38 = ?

Duke S. Rogers
1982

Catalogue

2.8 km W (by rd.) Villa Colon, 750 m, Prov. San José, Costa Rica

coll 1 Aug, died 5 August

swellings, 3R, 1L = 3mm
2177 ♀ Hionomys calvini
+ tissue, skel only
218-107-28-15 = 42g

16.3 km SE (by rd.) San Isidro, 525 m, Prov. San José, Costa Rica

5 August

nulliparous
2178 ♀ Heteromys desmarestianus
+ tissue, skel only
218-113-32-15 = 34g
nulliparous
2179 ♀ " "
+ tissue, skel only
164-78-27-13 = 18g

2.2 km E (by rd) La Trinidad de Dota, 2600 m, Prov. San José, Costa Rica

7 August

embs, 2L, 2R = CR = 17mm
2180 ♀ Oryzomys
t = 4x2mm
+ tissue, skel only
350-185-35-22 = 82g

2181 ♂ Reithrodontomys
t = 5x3mm
+ tissue, skel only
157-87-19-14 = 9g

2182 ♂ Scotinomys
t = 6x4mm
+ tissue skel only
116-44-17-12 = 10g

2183 ♂ Reithrodontomys
embs, 3L, 2R; CR = 24mm
2184 ♀ "
244-136-29-17 = 25g
246-133-30-17 = 34g

2185 — no number

2186 Scotinomys
alcoholic
129-57-20-15 = 9g

2187 Peromyscus nudipes
alcoholic
233-115-38-23 = 48g

34.7 km SE (by rd.) San Isidro, 525 m, Prov. San José, Costa Rica

Coll. 5 Aug., died 7 August

uteri swollen
2188 ♀ Oryzomys
+ tissue, skel only
191-82-28-15 = 26g
nulliparous
2189 ♀ "
+ tissue, skel only
137-62-23-12 = 10g
nulliparous
2190 ♀ "
t = 11x8mm
+ tissue, body skel
221-93-28-15 = 44g
2191 ♂ "
+ body skel
223-95-29-16 = 60g
2192 ♀ "
skel only
241-101-29-16 = 80g

Duke S Rogers
1982

Catalogue

1.1 Km SE (by rd.) Ciudad Neilly, 25m, Prov. Puntarenas, Costa Rica

Coll. 6 August, died 7 August

Nulliparous	2193 ♀ *Heteromys desmarestianus*	+body skel, chromo, tissue, blood spleen 240-121-33-17 = 35g
multiparous	2194 ♀ " "	+body skel, chrom, tissue, blood, spleen 282-156-38-17 = 56g
multiparous	2195 ♀ " "	+body skel, chromo, tissue, spleen 291-157-37-17 = 78g

34.7 Km SE (by rd.) San Isidro, 525m, Prov. San José, Costa Rica

Coll 5 Aug, died 7 August

t=14x9mm	2196 ♂ *Proechimys semispinosus*	+blood, tissue, glans, spleen, chromo 362-157-50-22 = 218g
	2197 ♂ " "	+glans, skull only 345-139-49-22 = 207g

16.3 Km SE (by rBad) San Isidro, 525m, Prov San José; Costa Rica

Coll 5 Aug, died 7 August

	2198 ♀ *Proechimys semispinosus*	+chromo, blood, tissue, spleen 381-168-52-24 = 234g

1 Km W (by rd.) Santa Rosa, 2250m, Prov. Cartago, Costa Rica

9 August

uteri swollen, no scars	2199 ♀ *Peromyscus nudipes*	+tissue, blood, spleen, brain, skel only 278-145-29-22 = 49g
t=15x9mm	2200 ♂ " "	+tissue, blood, spleen, brain, skel only 278-145-30-24 = 56g
old scars 2R, 1L	2201 ♀ " "	+tissue, blood, spleen, brain, skel only 278-152-30-22 = 44g
t=13x8mm	2202 ♂ " "	+tissue, blood, spleen, brain, skel only 260+129+20-21 = 47g
old scars 2R, 3L	2203 ♀ " "	+tissue blood, spleen, brain, skel only 262-131+29-22 = 48g
t=15x9mm	2204 ♂ " "	+tissue, blood, spleen brain + ~~body~~ skel 267+136+30-21 = 60g cark
nulliparous	2205 ♀ " "	+tissue, blood, spleen, brain +body skel 276-143-31-22 = 49g
scars, 2R, 1L	2206 ♀ " "	+tissue, blood, spleen, brain, body skel 279-147-29-22 = 50g
scars, 1R, 2L	2207 ♀ " "	+ body skel + tissue, blood, spleen, brain 281-144-30-22 = 50g
t=13x9mm	2208 ♂ " "	+ body skel + tissue, blood, spleen, brain 287-152-31-23 = 58g
cmbs 1L, 1R = 5mm	2209 ♀ " "	+ body skel + tissue, blood, spleen, brain 277-144-29-22 = 50g
scars, 3R, 2L	2210 ♀ " "	+ body skel + tissue, blood, spleen, brain 288-152-30-21 = 55g

Duke S Rogers
1982

Catalogue

1.0 Km W (by rd.) Santa Rosa, 2250 m, Prov Cartago; Costa Rica

9 August

2211 ♀ Peromyscus nudipes — alcoholic
2212 ♂ " — 271-149-29-22=43g alcoholic
2213 ♂ " " — 254-132-29-21=41g alcoholic
2214 ♂ " " — 253-128-29-22=52g alcoholic
2215 ♀ " " — 279-145-31-22=51g alcoholic
nulliparous — 271-134-29-23=48g
2216 ♀ " " — skel only + tissue, blood, brain, spleen
t=4x2 mm — 245-129-28-21=36g
2217 ♂ " " — skel only + tissue, blood, brain, spleen
t=13x8 mm — 228-119-28-20=31g
2218 ♂ " " — skel only + tissue, blood, brain, spleen
old scars, IL, IR — 266-133-29-21=50g
2219 ♀ " " — skel only + tissue, blood, brain, spleen
1.0 Km W Santa Rosa, 2250 m Prov. Cartago, — 255+128+29-21=45g
2.2 Km SE (by rd) La Trinidad de Dota, Prov. San José, Costa Rica

coll. 9 August, died 10 August
nulliparous — + brain, blood, tissue, chorio
2220 ♀ Peromyscus nudipes — 228-118-27-22=34g

2.2 km SE (by rd.) La Trinidad de Dota, Prov. San José, Costa Rica

Coll 7 August, died 9 August

2221 ♀ Heteromys oresterus — 228-118-27-22=34g

1.1 km SE (by rd.) Ciudad Neilly, 25 m, Prov. Pontarenas; Costa Rica

Coll. 6 August, died 10 August

nulliparous
2222 ♀ Heteomys desmarestianus — 257-132-35-17=53g

2600 m
2.2 km SE (by rd.) La Trinidad de Dota, Prov. San José, Costa Rica.

coll. 7 August, died 10 August
embs IR, 2L CR=23 mm — + brain, tissue, blood, spleen
2223 ♀ Peromyscus nudipes — 253-120-28-21=55g

1.0 Km W (by rd) Santa Rosa, 2250 m, Prov. Cartago; Costa Rica

Coll 9 August, died 10 August
t=4x2mm — + brain, spleen, blood, tissue
2224 ♂ Peromyscus nudipes — 201-104-27-20=22g

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1982

Catalogue

34.7 km SE (by rd) San Isidro, 525 m, Prov. San José; Costa Rica

Coll. 5 August, died 10 August

uteri swollen — +chromo, tissue, spleen, body skel
2225 ♀ Oryzomys — 211-97-29-17 = 35g
t = 9×5 mm
2226 ♂ " — +chromo, tissue, spleen, body skel
t = 12×6 mm — 216-90-27-16 = 46g
2227 ♂ " — +chromo, tissue, spleen, body skel
nulliparous — 231-98-30-16 = 60g
2228 ♀ " — +chromo, tissue, spleen, body skel
t = 3×2 mm — 196-86-29-14 = 34g
2229 ♂ " — +chromo, tissue, spleen, body skel
141-62-24-14 = 13g

1.1 km SE (by rd) Ciudad Neilly, 25 m, Prov. Puntarenas; Costa Rica

Coll 6 August, died 11 August

t = 12×9 — +body skel, reprod. tract, glans, blood, tissue, chromo, spleen
2230 ♂ Heteromys desmarestianus — 262-128-34-19 = 72g

La Trinidad de Dota, 2600 m,
2.2 km E (by rd) ~~San Isidro, Prov.~~ San José; Costa Rica

Coll. 7 August, died 11 August

embs, 3L; CR = 13 mm — +chromo, spleen, body skel tissue
2231 ♀ Oryzomys — 318-168-37-22 = 68g
uteri swollen, 5 swellings 2R, 1L = 3 mm — +chromo, spleen, tissue, body skel
2232 ♀ " — 282-153-36-21 = 52g

34.7 km SE (by rd.) San Isidro, 525 m, Prov. San José; Costa Rica

Coll. 5 August, died 11 August

t = 8×5 mm — + chromo, spleen, tissue, body skel
2233 ♂ Oryzomys — 230-111-29-18 = 32g

2.2 km E (by rd) La Trinidad de Dota, 2600 m, Prov. San José; Costa Rica

Coll. 7 August, died 20 August

uteri swollen — +body skel, chromo, spleen, tissue
2234 ♀ Scotinomys — 151-69-19-15 = 10g

5.0 km NE (by rd.) Tilarán, 675 m, Prov. Guanacaste, Costa Rica

Coll. 23 July, died 19 August

uteri not swollen, no scars — + body skel, chromo, spleen, tissue
2235 ♀ Heteromys desmarestianus — 275-146-35-18 = 60g

Duke S Rogers
1982

Catalogue

3.9 Km SE (by rd.) Playas del Coco, 100 m, Prov. Guanacaste, Costa Rica

coll. 24 July, died 15 September

♀ 19×11 mm
2236 ♂ → Liomys salvini
+ tissue, chromo, skel only
209-113-25-14 = 34 g

2.2 km E (by rd) La Trinidad de Dota, 2600 m, Prov. San José, Costa Rica

♀ 6×4 mm
2237 ♂ → Scotinomys
coll 7 August, died 17 Sept.
+ tissue, chromo, skel only
158-74-19-16 = 17 g

3.7 mi NNE (by rd) Cañas, 150 m, Guanacaste Prov, Costa Rica

coll 22 July, died 12 Nov.

♀ 19×11 mm
2238 ♂ → Liomys salvini
+ tissue, blood, chromo, skel only
242-118-26-19 = 70 g

750 m

2.8 mi W (by rd.) Villa Colon, Prov. San Jose, Costa Rica

coll 22 July ~~August~~ 1 August, died 20 October

♀ 19×12 mm
2239 ♂ Liomys salvini
+ part. skel.
+ chromo, blood, tissue, glans
267-132-25-15 = 58 g

2240

2241

1.1 Km SE (by rd.) Ciudad Neilly, 25 m, Prov. Puntarenas, Costa Rica

coll. 6 August, died 8 October

♀ 17×11 mm
2242 ♂ Heteromys desmarestianus
+ blood, chromo, tissue, body skel
279-151-33-16 = 80 g

♀ 11×6 mm
2243 ♂ " "
coll. 6 August died 2 October
skel. only
272-138-36-17 = 52 g

2.2 Km E (by rd.) La Trinidad de Dota, 2600 m, Prov. San José, Costa Rica

♀ 7×4 mm
2244 ♂ Heteromys oresterus
alcoholic
+ blood, tissue, chromo, glans
307-168-41-19 = 80 g

Duke S Rogers
1982

Catalogue

4.6 km W Limón, 25 m, Prov. Limón, Costa Rica

Coll. 31 July, died 14 October

†=22x14mm

2245 ♂ Heteromys desmarestianus 315-162-39-18=84g

5.6 km SE (by rd.) Turrialba, 450 m, Prov. Cartago, Costa Rica

Coll 30 July, died 15 Sept. + tissue, blood, chromosome, skel

2246 ♂ Heteromys desmarestianus 270+118-37-19=98g

41 km NE (by rd.) Tilarán, Prov. Guanacaste, Costa Rica

Coll 23 July

2247 Heteromys desmarestianus

2248 " "

2249 " "

16.3 km SE (by rd.) San Isidro, 525 m, Prov. San José, Costa Rica

2250 ♀ Proechimys semispinosus nulliparous (coll. 5 Aug., died 12 Aug.) 218-83-38-19=82g

4.1 Km NE (by rd.) Tilarán, Prov. Guanacaste, Costa Rica, 650 m

Coll 26 July, died 20 August

†=3x2 m + body skel, blood, tissue, chromo

2251 ♂ Oryzomys fulvescens 174-102-23-13=15g

Duke S Rogers
1982

Madrone Canyon, Catalogue
Big Creek, Hastings Natural History Reservation, 1850 ft.,
Monterey Co., California
6 November

uteri not swollen
2260 ♀ Perognathus californicus 195-101-26-13 = 23g
embs, 3L = 5mm
2261 ♀ Peromyscus boylii 204+105+22-18 = 23g
2262 ♀ Peromyscus boylii 197-100-21-19 = 23g

7 November

embs, 3L = 4mm
2263 ♀ Peromyscus boylii 186-98-21 20 = 24g
fact., 4 scars, CR-2L
2264 ♀ " " 206-111-23-19 = 26g
t = 8mm, SV = 7mm
2265 ♂ " " 180-94-21-17 = 20g
t = 3mm
2266 ♂ " " 155-77-21-17 = 11g
uteri not swollen
2267 ♀ Peromyscus californicus 235-122-26-23 = 38g

Big Creek, Hastings Natural History Reservation, 1800 ft.,
Monterey Co. California

uteri swollen, corpora haemorragica present Coll 7 November, died 8 Nov. + blood, tissue, skel only
2268 ♀ Peromyscus boylii 182-98-22-18 = 15g
embs., 2L-1R, = 8mm + blood, tissue, skel only
2269 ♀ " " 204-106-22-19 = 24g
uteri swollen + blood, tissue, skel only
2270 ♀ " " 202-104-22-19 = 21g
t = 9x7mm, SV = 9mm + blood, tissue, skel only
2271 ♂ " " 198 92 -22-19 = 20g

Madrone Canyon, Big Creek, Hastings Natural History Reservation, 1860 ft,
Monterey Co, California

Coll 7 November, died 8 November

multiparous skel only
2272 ♀ Peromyscus boylii 183-97-21-19 = 18g
multiparous + blood, tissue
2273 ♀ " " 1 day 165-84-21-16 = 12g
3 neonates, 32mm CR, ~~2 days~~ of age + blood, tissue, skel only
2274 ♀ " " 210-108-22-19 = 23g

Coll. 6 November, died 8 November

t = 11x7mm, SV = 10mm skel only, + blood, tissue
2275 ♂ Peromyscus boylii 197-101-24-19 = 24g

Duke & Rogers
1982

Catalogue

died 17 November

lact., uteri enlarged			+ tissue, blood, spleen, body skel
2290 ♀	*Podomys*	*floridanus*	209-95-28-23=38g
lact., uteri enlarged			+ tissue, blood, spleen, body skel
2291 ♀	"	"	192-88-26-23=30g
			+ tissue, blood, alcoholic
2292 ♀	"	"	205-94-27-22=39g
			+ tissue, blood, alcoholic
2293	"	"	211-94-28-23=41g

Duke S. Rogers
1982

Catalogue

Madrone Canyon, Big Creek, Hastings Natural History Reservation,
1850 ft, Monterey Co, California

coll 6 November, died 8 November

t=8x5mm, SV=5mm — + blood, tissue, skel only
2276 ♂ *Peromyscus boylii* — 196-98-22-19 = 25g
t=9x5mm, SV=5mm — + blood, tissue, skel. only
2277 ♂ " " — 198-96-22-19=26g
nulliparous — + blood, tissue, skel only
2278 ♀ " " — 188-96-22-19 =19g
t=8x5mm, SV=6mm — + blood, tissue, skel only
2279 ♂ " " — 170+76+22-20=27g
t=12x7mm, SV=8mm — + blood, tissue, skel only
2280 ♂ " " — 200-103-22-20=26g
t=3x2mm — skeleton only
2281 ♀ ~~*Peromyscus boylii*~~ — 153-77-22-17=12g
uteri not swollen — skeleton only
2282 ♀ " *truei* — 198-104-23-25 =21g
2 embs, 1L-1R=12mm CR — + blood, tissue, skeleton only
2283 ♀ " *californicus* — 247-132-26-23 = 43g
f=9x6mm, SV=4mm
2284 ♂ " *californicus* — 242-128-26-24=35g
lact., 2 scars, 1L-1R — skeleton only
2285 ♀ " *californicus* — 237-122-26-24 = 46g

Big Creek, Hastings Natural History Reservation, 1800 ft, Monterey Co, California

~~dec~~. coll 7 Nov., died 8 Nov.

skeleton only
2286 ♀ *Peromyscus boylii* — 199-106-21-19=22g

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